Berliner
Astronomisches Jahrbuch

für

1941

---

166. Jahrgang

Zweite, gekürzte Ausgabe

Herausgegeben vom

Coppernicus-Institut
(Astronomisches Rechen-Institut)

In Kommission bei
Ferd. Dümmlers Verlag, Bonn u. Berlin SW 68

1941

Berliner
Astronomisches Jahrbuch

für

1941

---

166. Jahrgang

Zweite, gekürzte Ausgabe

Herausgegeben vom

Coppernicus-Institut
(Astronomisches Rechen-Institut)

In Kommission bei
Ferd. Dümmlers Verlag, Bonn u. Berlin SW 68
1941

Das Berliner Astronomische Jahrbuch für 1941 war zu Beginn dieses Jahres völlig vergriffen, und infolge der großen Nachfrage war eine Neuauflage notwendig geworden. Um jedoch ein möglichst rasches Erscheinen des Bandes zu gewährleisten, wurde eine gekürzte Ausgabe als photographischer Neudruck hergestellt.

In Wegfall gekommen sind neben den in jedem Band in gleicher Weise sich wiederholenden Hilfstafeln vor allem die Ephemeriden der scheinbaren Sternörter und ein Teil der Reduktionsgrößen. Diese Teile des Berliner Jahrbuches dürften bereits in den Händen der meisten Fachastronomen sein.

Coppernicus-Institut

Berlin-Dahlem
März 1941

Vorwort

Vom Jahrgang 1916 an ist der fundamentale Meridian, auf den alle Angaben des Jahrbuchs bezogen sind, der Meridian von Greenwich.

Die Zeit ist vom Jahrgang 1925 an in Welt-Zeit, d. i. Bürgerliche Zeit Greenwich, ausgedrückt (siehe Erläuterungen).

Die Grundlagen des Berliner Astronomischen Jahrbuchs bilden:

Für die Sonne und die großen Planeten:

Die Tafeln von Newcomb und (für Jupiter und Saturn) von Hill, enthalten in:

Astronomical Papers of the American Ephemeris,
Vol. VI, Part I—IV: *Tables of the four inner planets*,
Vol. VII, Part I—IV: *Tables of Jupiter, Saturn, Uranus, Neptune.*

Für Pluto die Elemente von E. C. Bower. (Näheres siehe Erläuterungen.)

Als Sonnenhalbmesser in der mittleren Entfernung ist 16′ 1″.50 angenommen; dagegen liegt der Berechnung der Finsternisse der von Auwers in A. N., Bd. 128 gegebene Wert 15′ 59″.63 zugrunde.

Für den Mond:

Tables of the Motion of the Moon by Ernest W. Brown.

Der geozentrische Mondhalbmesser $r_☾$ ist aus der Äquatorial-Horizontalparallaxe $p_☾$ gerechnet nach der Formel

$$r_☾ = 0.272469\, p_☾ + 1''.50,$$

für die Finsternisse nach $\sin r_☾ = 0.272274 \sin p_☾$.

Als Neigung des Mondäquators gegen die Ekliptik ist nach F. Hayn (A. N. Bd. 199, 263) angenommen: $J = 1° 32' 20''$.

Für die Fixsterne:

Dritter Fundamentalkatalog des Berliner Astronomischen Jahrbuchs (Veröffentlichungen des Astronomischen Rechen-Instituts zu Berlin-Dahlem Nr. 54).

Die Sterngrößen und Sternspektra sind dem »Henry Draper Catalogue (Harvard Annals, vol. 91—99)« entnommen.

Als Werte der fundamentalen Reduktionsgrößen sind angenommen:

Die Präzessions-Größen nach S. Newcomb (vgl. H. Andoyer, Bull. Astr. **28**, 67)
Die Nutations-Konstante . . . . . 9″.21
Die Nutations-Größen nach S. Newcomb (Bull. Astr. **15**, 241)
Die Aberrations-Konstante . . . . 20″.47
Die Sonnen-Parallaxe . . . . 8″.80
Die Abplattung der Erde . . . . . 1 : 297

Für die Satelliten:

Die Angaben über die 4 älteren Jupitertrabanten beruhen auf den Tafeln von R. A. Sampson (*Tables of the four great Satellites of Jupiter.* London 1910), die Angaben über die 8 älteren Saturnsatelliten auf den von H. und G. Struve sowie von J. Woltjer ermittelten Werten (Näheres s. Erläuterungen).

In allen Ephemeriden der Sonne, der Planeten und der Fixsterne sind die kurzperiodischen, von der Mondlänge abhängigen Nutationsglieder weggelassen; doch bietet das Jahrbuch die Möglichkeit, auch diese weggelassenen Glieder zu berücksichtigen (s. Erläuterungen).

Der Inhalt des Jahrbuchs hat gegen das Vorjahr keine wesentlichen Änderungen erfahren. Jedoch sei erwähnt, daß in den Ephemeriden der Sonne und der Planeten mit Ausnahme von Pluto anstatt des Logarithmus der Entfernung von der Erde der Wert der Entfernung selbst gegeben ist, und daß bei den Sternbedeckungen die Vorausberechnungen für Wien aufgenommen worden sind.

Bezüglich der Zahlengrundlagen sei auf die im Berliner Jahrbuch für 1916 gegebene Darstellung der »Grundbegriffe der Sphärischen Astronomie« hingewiesen.

Ein Teil der Angaben wurde seitens der American Ephemeris and Nautical Almanac, Washington, des Nautical Almanac Office, London, und des Bureau des Longitudes, Paris, zur Verfügung gestellt.

Die Leitung der Arbeiten am Astronomischen Jahrbuch für 1941 lag in den Händen von Prof. Dr. Kohl; an der Bearbeitung der verschiedenen Teile beteiligten sich außerdem die Herren Dr. Müller, Dr. Baehr und mehrere Hilfsarbeiter.

Coppernicus-Institut

Inhalt

Zeit- und Festrechnung 1941

Das Jahr 1941 entspricht dem
Jahr 6654 der Julianischen Periode und dem
Jahr 7449—7450 der Byzantinischen Ära.

Gregorianischer Kalender

Goldene Zahl	4
Epakte	11
Sonnenzirkel	18
Sonntagsbuchstabe	E

Septuagesima	9. Febr.
Aschermittwoch	26. Febr.
I. Quatember	5. März
Ostersonntag	13. April
Himmelfahrt	22. Mai
Pfingstsonntag	1. Juni
II. Quatember	4. Juni
III. Quatember	17. Sept.
I. Advent	30. Nov.
IV. Quatember	17. Dez.

Dimensionen der Erde

a) Nach Bessel (1841)

Große Halbachse	a = 6 377 397.155 m	log a	= 6.804 6434 637
Kleine Halbachse	b = 6 356 078.963 m	log b	= 6.803 1892 839
Abplattung	α = 1 : 299.152 8129	log α	= 7.524 1069 092—10
Meridianquadrant	= 10 000 855.76 m		

Die Maßeinheit der Länge ist das legale Meter.

b) Nach Hayford (1909)

Große Halbachse	a = 6 378 388 m	log a	= 6.804 7109 340
Kleine Halbachse	b = 6 356 911.946 m	log b	= 6.803 2461 957
Abplattung	α = 1 : 297	log α	= 7.527 2435 507—10
Meridianquadrant	= 10 002 288.30 m		

Die Maßeinheit der Länge ist das internationale Meter.

Ein internationales Meter = 1.000 0133 legales Meter.

Beschleunigung durch die Schwerkraft:

$g = 980.616 - 2.5928 \cos 2\varphi + 0.0068 \cos^2 2\varphi$ cm. gr. sec. (Helmert 1908)

Masse der Erde: $5.974 \cdot 10^{27}$ gr.

Masse der Sonne: $1.983 \cdot 10^{33}$ gr.

Radius der Sonne: 695 300 km.

Mittlere Entfernung Erde—Sonne: 149 504 200 km

Lichtzeit für die mittlere Entfernung Erde—Sonne: $498^{s}.72$ (mit Lichtgeschwindigkeit 299 774 km/sec.)

Astronomische Konstanten

Allgemeine Präzession	$\psi = 50\overset{''}{.}2564 + 0\overset{''}{.}000222\,t$
Präzession in Rektaszension	$m = 3\overset{s}{.}07234 + 0\overset{s}{.}0000186\,t$
Präzession in Deklination	$n = 20\overset{''}{.}0468 - 0\overset{''}{.}000085\,t$
Mittlere Schiefe der Ekliptik	$\varepsilon = 23^\circ\,27'\,8\overset{''}{.}26 - 0\overset{''}{.}4684\,t$
Länge d. aufsteig. Knotens d. bewegl. a. d. festen Ekliptik	$\Pi = 173^\circ\,57'\,3\overset{''}{.}6 + 32\overset{''}{.}862\,t$
Winkel zwischen fester u. bewegl. Ekliptik	$\pi = 0\overset{''}{.}4711 - 0\overset{''}{.}000007\,t$

Länge des tropischen Jahres	$365\overset{d}{.}24219879 - 0\overset{d}{.}0000000614\,t$
„ „ siderischen „	$365.25636042 + 0.0000000011\,t$
„ „ anomalistischen „	$365.25964134 + 0.0000000304\,t$
„ „ julianischen „	365.25

t = Zeit seit 1900 in julianischen Jahren

Länge des synodischen Monats	$29\overset{d}{.}530588$
„ „ tropischen „	27.321582
„ „ siderischen „	27.321661
„ „ anomalistischen „	27.554550

Länge des mittleren Sonnentages $= 24^h\,3^m\,56\overset{s}{.}555$ Sternzeit $= 1.00273791$ Sterntag

Länge des mittl. Sterntages $= 23^h\,56^m\,4\overset{s}{.}091$ mittl. Zeit $= 0.99726957$ mittl. Sonnentag

Äquatoreal-Horizontalparallaxe des Mondes . . . . . $57'\,2\overset{''}{.}70$

Gravitationskonstante nach Gauß $k = 0.017202099 = 3548\overset{''}{.}18761$

$\log k = 8.23558144\text{–}10 \quad \log k'' = 3.55000657$

1 Lichtjahr $= 63275$ Astr. Einh. $= 0.3068$ Parsek $= 9.460 \cdot 10^{12}$ km

1 Parsek $= 206264.806$ Astr. Einh. $= 3.2598$ Lichtjahre $= 30.84 \cdot 10^{12}$ km

Elemente der Planetenbahnen für 1911 Jan. 0, 0h Welt-Zeit

	☊ (°)	i (°)	$\tilde{\omega}$ (°)	e
Merkur	47.632	7.004	76.537	0.205623
Venus	76.149	3.394	130.741	0.006801
Erde	—	—	101.926	0.016734
Mars	49.103	1.850	334.973	0.093351
Jupiter	99.858	1.306	13.381	0.048402
Saturn	113.148	2.491	91.901	0.055751
Uranus	73.682	0.773	172.157	0.046334
Neptun	131.132	1.775	47.311	0.009000
Pluto	109.633	17.144	223.175	0.248644

	a	L (°)	$n_{sid.}$ (°)	$P_{sid.}$ (a)	(d)
Merkur	0.387099	259.479	4.09234	0	87.9693
Venus	0.723331	214.443	1.60213	0	224.7008
Erde	1.000000	99.273	0.98561	1	0.0142
Mars	1.523688	221.451	0.52403	1	321.7375
Jupiter	5.202561	42.871	0.08309	11	314.925
Saturn	9.554747	48.178	0.03346	29	167.21
Uranus	19.21814	60.433	0.01173	84	8.11
Neptun	30.10957	174.607	0.00598	164	281.6
Pluto	39.51774	152.534	0.00397	248	157

Merkur bis Mars nach Newcomb, Jupiter bis Neptun nach Leverrier und Gaillot, Pluto nach Bower. Für Pluto sind baryzentrische Elemente bezogen auf Ekliptik und mittleres Äquinoktium 1950.0 gegeben.

Astronomische Zeichen und Abkürzungen

Bezeichnung der Wochentage

☉ Sonntag
☾ Montag
♂ Dienstag
☿ Mittwoch
♃ Donnerstag
♀ Freitag
♄ Sonnabend

Adspekten

☌ Konjunktion
□ Quadratur
☍ Opposition

Mondphasen

● Neumond
☽ Erstes Viertel
○ Vollmond
☾ Letztes Viertel

☊ Aufsteigender } Knoten
☋ Absteigender } Knoten

Zeichen

des Tierkreises und der Himmelskörper

♈ Widder . . .	0 Grad		
♉ Stier	30 »	☉	Sonne
♊ Zwillinge . . .	60 »	☾	Mond
♋ Krebs	90 »	☿	Merkur
♌ Löwe	120 »	♀	Venus
♍ Jungfrau . . .	150 »	♁	Erde
♎ Waage . . .	180 »	♂	Mars
♏ Skorpion . . .	210 »	♃	Jupiter
♐ Schütze . . .	240 »	♄	Saturn
♑ Steinbock . .	270 »	♅	Uranus
♒ Wassermann .	300 »	♆	Neptun
♓ Fische	330 »		

Sonne, Mond, Große Planeten

1941

Sonne 1941

Tag		Wochentag	0ʰ Welt-Zeit							
			Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Jan.	0	Di	− 2 52.64	28.76	18 39 56.88	4 25.31	−23 7 35.1	4 27.1	71.10	16 17.81
	1	Mi	3 21.40	28.44	18 44 22.19	4 25.00	23 3 8.0	4 54.6	71.06	16 17.83
	2	Do	3 49.84	28.10	18 48 47.19	4 24.66	22 58 13.4	5 22.1	71.02	16 17.84
	3	Fr	4 17.94	27.71	18 53 11.85	4 24.27	22 52 51.3	5 49.4	70.98	16 17.84
	4	Sa	4 45.65	27.30	18 57 36.12	4 23.85	22 47 1.9	6 16.5	70.92	16 17.84
	5	St	5 12.95	26.86	19 1 59.97	4 23.42	22 40 45.4	6 43.5	70.86	16 17.84
	6	Mo	− 5 39.81	26.39	19 6 23.39	4 22.95	−22 34 1.9	7 10.2	70.80	16 17.83
	7	Di	6 6.20	25.89	19 10 46.34	4 22.45	22 26 51.7	7 36.8	70.74	16 17.82
	8	Mi	6 32.09	25.37	19 15 8.79	4 21.92	22 19 14.9	8 3.0	70.68	16 17.80
	9	Do	6 57.46	24.82	19 19 30.71	4 21.38	22 11 11.9	8 29.1	70.61	16 17.77
	10	Fr	7 22.28	24.26	19 23 52.09	4 20.81	22 2 42.8	8 55.0	70.53	16 17.74
	11	Sa	7 46.54	23.67	19 28 12.90	4 20.23	21 53 47.8	9 20.5	70.46	16 17.71
	12	St	− 8 10.21	23.05	19 32 33.13	4 19.61	−21 44 27.3	9 45.8	70.38	16 17.66
	13	Mo	8 33.26	22.43	19 36 52.74	4 18.99	21 34 41.5	10 10.9	70.29	16 17.61
	14	Di	8 55.69	21.79	19 41 11.73	4 18.35	21 24 30.6	10 35.6	70.21	16 17.56
	15	Mi	9 17.48	21.14	19 45 30.08	4 17.69	21 13 55.0	11 0.1	70.12	16 17.50
	16	Do	9 38.62	20.46	19 49 47.77	4 17.02	21 2 54.9	11 24.3	70.02	16 17.43
	17	Fr	9 59.08	19.79	19 54 4.79	4 16.34	20 51 30.6	11 48.1	69.93	16 17.35
	18	Sa	−10 18.87	19.08	19 58 21.13	4 15.64	−20 39 42.5	12 11.7	69.83	16 17.27
	19	St	10 37.95	18.38	20 2 36.77	4 14.94	20 27 30.8	12 34.9	69.73	16 17.19
	20	Mo	10 56.33	17.66	20 6 51.71	4 14.21	20 14 55.9	12 57.8	69.63	16 17.10
	21	Di	11 13.99	16.93	20 11 5.92	4 13.48	20 1 58.1	13 20.3	69.53	16 17.00
	22	Mi	11 30.92	16.17	20 15 19.40	4 12.73	19 48 37.8	13 42.4	69.42	16 16.91
	23	Do	11 47.09	15.42	20 19 32.13	4 11.98	19 34 55.4	14 4.3	69.32	16 16.80
	24	Fr	−12 2.51	14.65	20 23 44.11	4 11.20	−19 20 51.1	14 25.7	69.21	16 16.69
	25	Sa	12 17.16	13.86	20 27 55.31	4 10.42	19 6 25.4	14 46.7	69.10	16 16.58
	26	St	12 31.02	13.07	20 32 5.73	4 9.62	18 51 38.7	15 7.3	68.99	16 16.46
	27	Mo	12 44.09	12.27	20 36 15.35	4 8.82	18 36 31.4	15 27.6	68.87	16 16.34
	28	Di	12 56.36	11.44	20 40 24.17	4 8.01	18 21 3.8	15 47.4	68.76	16 16.22
	29	Mi	13 7.80	10.63	20 44 32.18	4 7.18	18 5 16.4	16 6.9	68.65	16 16.09
	30	Do	−13 18.43	9.80	20 48 39.36	4 6.36	−17 49 9.5	16 25.9	68.54	16 15.96
	31	Fr	13 28.23	8.97	20 52 45.72	4 5.52	17 32 43.6	16 44.6	68.42	16 15.83
Febr.	1	Sa	13 37.20	8.14	20 56 51.24	4 4.69	17 15 59.0	17 2.7	68.31	16 15.70
	2	St	13 45.34	7.29	21 0 55.93	4 3.85	16 58 56.3	17 20.6	68.19	16 15.56
	3	Mo	13 52.63	6.47	21 4 59.78	4 3.02	16 41 35.7	17 38.0	68.07	16 15.42
	4	Di	13 59.10	5.63	21 9 2.80	4 2.18	16 23 57.7	17 55.0	67.96	16 15.27
	5	Mi	−14 4.73	4.80	21 13 4.98	4 1.36	−16 6 2.7	18 11.5	67.84	16 15.12
	6	Do	14 9.53	3.98	21 17 6.34	4 0.53	15 47 51.2	18 27.7	67.73	16 14.96
	7	Fr	14 13.51	3.15	21 21 6.87	3 59.71	15 29 23.5	18 43.5	67.62	16 14.81
	8	Sa	14 16.66	2.35	21 25 6.58	3 58.90	15 10 40.0	18 58.8	67.50	16 14.64
	9	St	14 19.01	1.54	21 29 5.48	3 58.10	14 51 41.2	19 13.8	67.39	16 14.47
	10	Mo	−14 20.55		21 33 3.58		−14 32 27.4		67.28	16 14.30

Tag	0h Welt-Zeit Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	R		Aufgang in {+50° Breite, 0h Länge}	Untergang
1941	24	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01 ″			h m	h m
Jan. 0	29 994.5	6 37 4.239	+142	+13	279 10 56.5	61 10.5	+60	0.983 3170	140	7 59	16 8
1	29 995.5	6 41 0.796	144	+13	280 12 7.0	61 10.4	+53	0.983 3030	101	7 59	16 9
2	29 996.5	6 44 57.353	145	+12	281 13 17.4	61 10.2	+43	0.983 2929	57	7 59	16 10
3	29 997.5	6 48 53.911	147	+ 8	282 14 27.6	61 9.9	+32	0.983 2872	12	7 59	16 11
4	29 998.5	6 52 50.468	149	+ 3	283 15 37.5	61 9.7	+20	0.983 2860	35	7 58	16 12
5	29 999.5	6 56 47.025	151	− 2	284 16 47.2	61 9.3	+ 9	0.983 2895	86	7 58	16 13
6	30 000.5	7 0 43.582	+152	− 6	285 17 56.5	61 8.9	− 3	0.983 2981	137	7 58	16 14
7	30 001.5	7 4 40.139	154	− 9	286 19 5.4	61 8.4	−14	0.983 3118	192	7 58	16 15
8	30 002.5	7 8 36.695	155	−11	287 20 13.8	61 8.1	−24	0.983 3310	248	7 57	16 16
9	30 003.5	7 12 33.252	157	−11	288 21 21.9	61 7.5	−32	0.983 3558	306	7 57	16 18
10	30 004.5	7 16 29.809	158	− 9	289 22 29.4	61 7.1	−38	0.983 3864	367	7 56	16 19
11	30 005.5	7 20 26.366	159	− 6	290 23 36.5	61 6.6	−42	0.983 4231	429	7 56	16 20
12	30 006.5	7 24 22.922	+161	− 1	291 24 43.1	61 6.2	−43	0.983 4660	493	7 55	16 22
13	30 007.5	7 28 19.479	162	+ 4	292 25 49.3	61 5.8	−41	0.983 5153	556	7 55	16 23
14	30 008.5	7 32 16.035	163	+ 7	293 26 55.1	61 5.4	−36	0.983 5709	621	7 54	16 25
15	30 009.5	7 36 12.592	164	+ 9	294 28 0.5	61 5.0	−27	0.983 6330	684	7 54	16 26
16	30 010.5	7 40 9.148	165	+ 8	295 29 5.5	61 4.6	−17	0.983 7014	746	7 53	16 28
17	30 011.5	7 44 5.704	166	+ 5	296 30 10.1	61 4.4	− 5	0.983 7760	806	7 52	16 29
18	30 012.5	7 48 2.260	+167	+ 1	297 31 14.5	61 4.0	+ 8	0.983 8566	863	7 51	16 31
19	30 013.5	7 51 58.816	167	− 4	298 32 18.5	61 3.7	+22	0.983 9429	917	7 50	16 32
20	30 014.5	7 55 55.372	168	− 8	299 33 22.2	61 3.4	+36	0.984 0346	966	7 49	16 34
21	30 015.5	7 59 51.928	168	−10	300 34 25.6	61 3.0	+48	0.984 1312	1013	7 48	16 35
22	30 016.5	8 3 48.484	169	− 9	301 35 28.6	61 2.6	+58	0.984 2325	1056	7 47	16 37
23	30 017.5	8 7 45.040	169	− 6	302 36 31.2	61 2.1	+66	0.984 3381	1095	7 46	16 38
24	30 018.5	8 11 41.595	+169	− 2	303 37 33.3	61 1.5	+71	0.984 4476	1133	7 45	16 40
25	30 019.5	8 15 38.151	170	+ 4	304 38 34.8	61 0.8	+73	0.984 5609	1167	7 44	16 41
26	30 020.5	8 19 34.706	170	+ 9	305 39 35.6	61 0.1	+72	0.984 6776	1200	7 43	16 43
27	30 021.5	8 23 31.262	170	+12	306 40 35.7	60 59.2	+69	0.984 7976	1233	7 42	16 45
28	30 022.5	8 27 27.817	170	+13	307 41 34.9	60 58.2	+62	0.984 9209	1264	7 40	16 47
29	30 023.5	8 31 24.372	169	+12	308 42 33.1	60 57.2	+52	0.985 0473	1298	7 39	16 48
30	30 024.5	8 35 20.927	+169	+ 9	309 43 30.3	60 56.0	+41	0.985 1771	1332	7 37	16 50
31	30 025.5	8 39 17.482	169	+ 4	310 44 26.3	60 54.9	+29	0.985 3103	1366	7 36	16 52
Febr. 1	30 026.5	8 43 14.037	168	− 1	311 45 21.2	60 53.5	+17	0.985 4469	1403	7 35	16 54
2	30 027.5	8 47 10.592	168	− 5	312 46 14.7	60 52.2	+ 5	0.985 5872	1442	7 33	16 55
3	30 028.5	8 51 7.146	167	− 9	313 47 6.9	60 50.9	− 6	0.985 7314	1481	7 32	16 57
4	30 029.5	8 55 3.701	166	−11	314 47 57.8	60 49.4	−17	0.985 8795	1523	7 30	16 58
5	30 030.5	8 59 0.255	+165	−12	315 48 47.2	60 47.9	−26	0.986 0318	1566	7 29	17 0
6	30 031.5	9 2 56.810	164	−10	316 49 35.1	60 46.5	−33	0.986 1884	1610	7 27	17 2
7	30 032.5	9 6 53.364	163	− 7	317 50 21.6	60 45.0	−37	0.986 3494	1658	7 26	17 4
8	30 033.5	9 10 49.918	162	− 3	318 51 6.6	60 43.5	−39	0.986 5152	1707	7 24	17 5
9	30 034.5	9 14 46.472	160	+ 2	319 51 50.1	60 42.0	−37	0.986 6859	1758	7 23	17 7
10	30 035.5	9 18 43.026	+159	+ 6	320 52 32.1		−32	0.986 8617		7 21	17 9

Sonne 1941

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung (Wahre Zeit *minus* Mittlere Zeit) m s	Diff. s	Scheinbare Rektaszension h m s	Diff. m s	Scheinbare Deklination ° ′ ″	Diff. ′ ″	Halbe Durchgangs-Dauer St.-Zt. s	Halbmesser ′ ″
1941									
Febr. 10	Mo	−14 20.55	0.75	21 33 3.58	3 57.30	−14 32 27.4	19 28.3	67.28	16 14.30
11	Di	14 21.30	0.02	21 37 0.88	3 56.53	14 12 59.1	19 42.4	67.17	16 14.12
12	Mi	14 21.28	0.79	21 40 57.41	3 55.77	13 53 16.7	19 56.1	67.06	16 13.94
13	Do	14 20.49	1.54	21 44 53.18	3 55.01	13 33 20.6	20 9.5	66.95	16 13.75
14	Fr	14 18.95	2.27	21 48 48.19	3 54.28	13 13 11.1	20 22.5	66.84	16 13.55
15	Sa	14 16.68	2.99	21 52 42.47	3 53.57	12 52 48.6	20 35.0	66.74	16 13.36
16	St	−14 13.69	3.70	21 56 36.04	3 52.86	−12 32 13.6	20 47.1	66.63	16 13.15
17	Mo	14 9.99	4.38	22 0 28.90	3 52.17	12 11 26.5	20 58.9	66.53	16 12.94
18	Di	14 5.61	5.06	22 4 21.07	3 51.49	11 50 27.6	21 10.2	66.43	16 12.73
19	Mi	14 0.55	5.72	22 8 12.56	3 50.84	11 29 17.4	21 21.1	66.33	16 12.52
20	Do	13 54.83	6.36	22 12 3.40	3 50.18	11 7 56.3	21 31.5	66.23	16 12.30
21	Fr	13 48.47	7.00	22 15 53.58	3 49.56	10 46 24.8	21 41.7	66.14	16 12.08
22	Sa	−13 41.47	7.62	22 19 43.14	3 48.93	−10 24 43.1	21 51.3	66.05	16 11.85
23	St	13 33.85	8.23	22 23 32.07	3 48.32	10 2 51.8	22 0.5	65.96	16 11.62
24	Mo	13 25.62	8.83	22 27 20.39	3 47.72	9 40 51.3	22 9.4	65.87	16 11.40
25	Di	13 16.79	9.42	22 31 8.11	3 47.14	9 18 41.9	22 17.7	65.78	16 11.17
26	Mi	13 7.37	9.98	22 34 55.25	3 46.57	8 56 24.2	22 25.7	65.70	16 10.94
27	Do	12 57.39	10.55	22 38 41.82	3 46.01	8 33 58.5	22 33.2	65.61	16 10.70
28	Fr	−12 46.84	11.08	22 42 27.83	3 45.46	− 8 11 25.3	22 40.4	65.53	16 10.48
März 1	Sa	12 35.76	11.62	22 46 13.29	3 44.94	7 48 44.9	22 47.1	65.45	16 10.23
2	St	12 24.14	12.13	22 49 58.23	3 44.42	7 25 57.8	22 53.5	65.38	16 10.00
3	Mo	12 12.01	12.62	22 53 42.65	3 43.93	7 3 4.3	22 59.4	65.31	16 9.76
4	Di	11 59.39	13.11	22 57 26.58	3 43.45	6 40 4.9	23 4.9	65.24	16 9.52
5	Mi	11 46.28	13.56	23 1 10.03	3 42.98	6 17 0.0	23 10.0	65.17	16 9.28
6	Do	−11 32.72	14.01	23 4 53.01	3 42.55	− 5 53 50.0	23 14.7	65.10	16 9.04
7	Fr	11 18.71	14.43	23 8 35.56	3 42.12	5 30 35.3	23 19.1	65.04	16 8.79
8	Sa	11 4.28	14.84	23 12 17.68	3 41.71	5 7 16.2	23 23.1	64.99	16 8.54
9	St	10 49.44	15.22	23 15 59.39	3 41.33	4 43 53.1	23 26.6	64.93	16 8.30
10	Mo	10 34.22	15.58	23 19 40.72	3 40.97	4 20 26.5	23 29.8	64.88	16 8.04
11	Di	10 18.64	15.92	23 23 21.69	3 40.63	3 56 56.7	23 32.7	64.83	16 7.79
12	Mi	−10 2.72	16.24	23 27 2.32	3 40.32	− 3 33 24.0	23 35.2	64.78	16 7.53
13	Do	9 46.48	16.52	23 30 42.64	3 40.03	3 9 48.8	23 37.3	64.74	16 7.27
14	Fr	9 29.96	16.79	23 34 22.67	3 39.76	2 46 11.5	23 39.2	64.70	16 7.00
15	Sa	9 13.17	17.03	23 38 2.43	3 39.52	2 22 32.3	23 40.5	64.66	16 6.74
16	St	8 56.14	17.24	23 41 41.95	3 39.31	1 58 51.8	23 41.7	64.62	16 6.47
17	Mo	8 38.90	17.43	23 45 21.26	3 39.12	1 35 10.1	23 42.3	64.59	16 6.19
18	Di	− 8 21.47	17.60	23 49 0.38	3 38.95	− 1 11 27.8	23 42.8	64.56	16 5.92
19	Mi	8 3.87	17.75	23 52 39.33	3 38.81	0 47 45.0	23 42.8	64.53	16 5.64
20	Do	7 46.12	17.86	23 56 18.14	3 38.69	0 24 2.2	23 42.4	64.51	16 5.36
21	Fr	7 28.26	17.98	23 59 56.83	3 38.58	− 0 0 19.8	23 41.8	64.49	16 5.09
22	Sa	7 10.28	18.06	0 3 35.41	3 38.49	+ 0 23 22.0	23 40.6	64.48	16 4.81
23	St	− 6 52.22		0 7 13.90		+ 0 47 2.6		64.47	16 4.53

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Mittleres Äquinoktium 1941.0 Breite	*R*		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
1941	2430	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01″			h m	h m
Febr. 10	035.5	9 18 43.026	+159	+ 6	320 52 32.1	60 40.5	−32	0.986 8617	1811	7 21	17 9
11	036.5	9 22 39.580	158	+ 8	321 53 12.6	60 39.1	−25	0.987 0428	1863	7 19	17 11
12	037.5	9 26 36.134	156	+ 9	322 53 51.7	60 37.7	−16	0.987 2291	1917	7 17	17 13
13	038.5	9 30 32.687	154	+ 6	323 54 29.4	60 36.3	− 4	0.987 4208	1969	7 16	17 14
14	039.5	9 34 29.241	153	+ 2	324 55 5.7	60 35.1	+10	0.987 6177	2020	7 14	17 16
15	040.5	9 38 25.795	151	− 2	325 55 40.8	60 33.7	+24	0.987 8197	2068	7 12	17 18
16	041.5	9 42 22.348	+149	− 6	326 56 14.5	60 32.6	+37	0.988 0265	2112	7 10	17 20
17	042.5	9 46 18.901	147	− 9	327 56 47.1	60 31.3	+50	0.988 2377	2153	7 8	17 21
18	043.5	9 50 15.454	144	− 9	328 57 18.4	60 30.1	+62	0.988 4530	2190	7 7	17 23
19	044.5	9 54 12.007	142	− 7	329 57 48.5	60 28.8	+71	0.988 6720	2224	7 5	17 24
20	045.5	9 58 8.560	140	− 2	330 58 17.3	60 27.6	+77	0.988 8944	2252	7 3	17 26
21	046.5	10 2 5.113	137	+ 3	331 58 44.9	60 26.1	+78	0.989 1196	2278	7 1	17 28
22	047.5	10 6 1.666	+135	+ 8	332 59 11.0	60 24.8	+77	0.989 3474	2301	6 59	17 30
23	048.5	10 9 58.219	132	+12	333 59 35.8	60 23.3	+74	0.989 5775	2321	6 57	17 31
24	049.5	10 13 54.772	130	+13	334 59 59.1	60 21.7	+67	0.989 8096	2339	6 55	17 33
25	050.5	10 17 51.324	127	+12	336 0 20.8	60 20.1	+58	0.990 0435	2355	6 53	17 35
26	051.5	10 21 47.877	124	+10	337 0 40.9	60 18.3	+47	0.990 2790	2371	6 51	17 37
27	052.5	10 25 44.429	121	+ 6	338 0 59.2	60 16.6	+35	0.990 5161	2387	6 49	17 38
28	053.5	10 29 40.982	+118	+ 1	339 1 15.8	60 14.7	+22	0.990 7548	2403	6 47	17 40
März 1	054.5	10 33 37.534	115	− 4	340 1 30.5	60 12.8	+ 9	0.990 9951	2418	6 45	17 41
2	055.5	10 37 34.086	112	− 7	341 1 43.3	60 10.8	− 3	0.991 2369	2435	6 43	17 43
3	056.5	10 41 30.639	109	−10	342 1 54.1	60 8.8	−14	0.991 4804	2453	6 41	17 45
4	057.5	10 45 27.191	106	−12	343 2 2.9	60 6.7	−24	0.991 7257	2472	6 39	17 46
5	058.5	10 49 23.743	102	−12	344 2 9.6	60 4.6	−32	0.991 9729	2492	6 36	17 48
6	059.5	10 53 20.295	+ 99	− 9	345 2 14.2	60 2.5	−37	0.992 2221	2513	6 34	17 49
7	060.5	10 57 16.847	96	− 6	346 2 16.7	60 0.3	−39	0.992 4734	2537	6 32	17 51
8	061.5	11 1 13.399	92	− 1	347 2 17.0	59 58.1	−39	0.992 7271	2562	6 30	17 53
9	062.5	11 5 9.951	89	+ 4	348 2 15.1	59 56.0	−36	0.992 9833	2590	6 28	17 54
10	063.5	11 9 6.503	85	+ 7	349 2 11.1	59 53.9	−29	0.993 2423	2619	6 26	17 56
11	064.5	11 13 3.055	82	+ 8	350 2 5.0	59 51.7	−20	0.993 5042	2650	6 24	17 57
12	065.5	11 16 59.606	+ 78	+ 7	351 1 56.7	59 49.7	− 9	0.993 7692	2682	6 22	17 59
13	066.5	11 20 56.158	75	+ 4	352 1 46.4	59 47.7	+ 4	0.994 0374	2716	6 20	18 1
14	067.5	11 24 52.710	71	− 1	353 1 34.1	59 45.8	+18	0.994 3090	2746	6 18	18 2
15	068.5	11 28 49.262	68	− 6	354 1 19.9	59 43.9	+32	0.994 5836	2777	6 15	18 4
16	069.5	11 32 45.813	64	− 9	355 1 3.8	59 42.2	+46	0.994 8613	2804	6 13	18 5
17	070.5	11 36 42.365	60	− 9	356 0 46.0	59 40.4	+58	0.995 1417	2828	6 11	18 7
18	071.5	11 40 38.917	+ 57	− 7	357 0 26.4	59 38.7	+66	0.995 4245	2848	6 9	18 9
19	072.5	11 44 35.468	53	− 3	358 0 5.1	59 37.0	+73	0.995 7093	2864	6 7	18 10
20	073.5	11 48 32.020	49	+ 2	358 59 42.1	59 35.2	+77	0.995 9957	2875	6 4	18 12
21	074.5	11 52 28.572	45	+ 7	359 59 17.3	59 33.6	+78	0.996 2832	2883	6 2	18 13
22	075.5	11 56 25.123	42	+12	0 58 50.9	59 31.8	+75	0.996 5715	2887	6 0	18 15
23	076.5	12 0 21.675	+ 38	+13	1 58 22.7		+69	0.996 8602		5 58	18 17

Tag	Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
März 23	St	−6 52.22	18.12	0 7 13.90	3 38.42	+ 0 47 2.6	23 39.2	64.47	16 4.53
24	Mo	6 34.10	18.18	0 10 52.32	3 38.38	1 10 41.8	23 37.3	64.46	16 4.25
25	Di	6 15.92	18.21	0 14 30.70	3 38.34	1 34 19.1	23 35.2	64.45	16 3.97
26	Mi	5 57.71	18.23	0 18 9.04	3 38.32	1 57 54.3	23 32.7	64.44	16 3.69
27	Do	5 39.48	18.23	0 21 47.36	3 38.33	2 21 27.0	23 29.6	64.44	16 3.42
28	Fr	5 21.25	18.21	0 25 25.69	3 38.34	2 44 56.6	23 26.4	64.44	16 3.14
29	Sa	−5 3.04	18.17	0 29 4.03	3 38.37	+ 3 8 23.0	23 22.8	64.44	16 2.86
30	St	4 44.87	18.13	0 32 42.40	3 38.43	3 31 45.8	23 18.7	64.45	16 2.59
31	Mo	4 26.74	18.06	0 36 20.83	3 38.49	3 55 4.5	23 14.3	64.46	16 2.31
April 1	Di	4 8.68	17.97	0 39 59.32	3 38.58	4 18 18.8	23 9.5	64.48	16 2.04
2	Mi	3 50.71	17.87	0 43 37.90	3 38.68	4 41 28.3	23 4.4	64.50	16 1.77
3	Do	3 32.84	17.75	0 47 16.58	3 38.80	5 4 32.7	22 59.0	64.52	16 1.50
4	Fr	−3 15.09	17.62	0 50 55.38	3 38.94	+ 5 27 31.7	22 53.2	64.54	16 1.23
5	Sa	2 57.47	17.46	0 54 34.32	3 39.09	5 50 24.9	22 47.0	64.56	16 0.95
6	St	2 40.01	17.29	0 58 13.41	3 39.26	6 13 11.9	22 40.5	64.59	16 0.69
7	Mo	2 22.72	17.11	1 1 52.67	3 39.45	6 35 52.4	22 33.6	64.62	16 0.42
8	Di	2 5.61	16.89	1 5 32.12	3 39.66	6 58 26.0	22 26.5	64.65	16 0.15
9	Mi	1 48.72	16.66	1 9 11.78	3 39.89	7 20 52.5	22 18.9	64.68	15 59.88
10	Do	−1 32.06	16.40	1 12 51.67	3 40.15	+ 7 43 11.4	22 11.1	64.72	15 59.61
11	Fr	1 15.66	16.14	1 16 31.82	3 40.42	8 5 22.5	22 3.0	64.76	15 59.34
12	Sa	0 59.52	15.84	1 20 12.24	3 40.71	8 27 25.5	21 54.4	64.80	15 59.07
13	St	0 43.68	15.52	1 23 52.95	3 41.03	8 49 19.9	21 45.7	64.84	15 58.80
14	Mo	0 28.16	15.18	1 27 33.98	3 41.37	9 11 5.6	21 36.6	64.89	15 58.53
15	Di	−0 12.98	14.83	1 31 15.35	3 41.72	9 32 42.2	21 27.1	64.94	15 58.25
16	Mi	+0 1.85	14.45	1 34 57.07	3 42.10	+ 9 54 9.3	21 17.4	64.99	15 57.98
17	Do	0 16.30	14.06	1 38 39.17	3 42.50	10 15 26.7	21 7.4	65.04	15 57.71
18	Fr	0 30.36	13.65	1 42 21.67	3 42.90	10 36 34.1	20 56.9	65.10	15 57.44
19	Sa	0 44.01	13.23	1 46 4.57	3 43.33	10 57 31.0	20 46.2	65.16	15 57.17
20	St	0 57.24	12.79	1 49 47.90	3 43.75	11 18 17.2	20 35.1	65.22	15 56.90
21	Mo	1 10.03	12.36	1 53 31.65	3 44.20	11 38 52.3	20 23.7	65.28	15 56.63
22	Di	+1 22.39	11.89	1 57 15.85	3 44.66	+11 59 16.0	20 11.9	65.35	15 56.37
23	Mi	1 34.28	11.43	2 1 0.51	3 45.12	12 19 27.9	19 59.8	65.41	15 56.11
24	Do	1 45.71	10.96	2 4 45.63	3 45.60	12 39 27.7	19 47.4	65.48	15 55.85
25	Fr	1 56.67	10.48	2 8 31.23	3 46.08	12 59 15.1	19 34.6	65.55	15 55.60
26	Sa	2 7.15	9.99	2 12 17.31	3 46.56	13 18 49.7	19 21.5	65.62	15 55.34
27	St	2 17.14	9.49	2 16 3.87	3 47.06	13 38 11.2	19 8.1	65.69	15 55.09
28	Mo	+2 26.63	8.99	2 19 50.93	3 47.57	+13 57 19.3	18 54.2	65.76	15 54.85
29	Di	2 35.62	8.48	2 23 38.50	3 48.07	14 16 13.5	18 40.2	65.84	15 54.60
30	Mi	2 44.10	7.96	2 27 26.57	3 48.59	14 34 53.7	18 25.7	65.91	15 54.36
Mai 1	Do	2 52.06	7.45	2 31 15.16	3 49.11	14 53 19.4	18 10.9	65.99	15 54.12
2	Fr	2 59.51	6.92	2 35 4.27	3 49.63	15 11 30.3	17 55.9	66.06	15 53.89
3	Sa	+3 6.43		2 38 53.90		+15 29 26.2		66.14	15 53.66

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1941	2430	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
März 23	076.5	12 0 21.675	+38	+13	1 58 22.7	59 30.0	+69	0.996 8602	2887	5 58	18 17
24	077.5	12 4 18.227	34	+13	2 57 52.7	59 28.1	+59	0.997 1489	2885	5 56	18 18
25	078.5	12 8 14.778	31	+11	3 57 20.8	59 26.3	+49	0.997 4374	2881	5 53	18 20
26	079.5	12 12 11.330	27	+ 7	4 56 47.1	59 24.3	+37	0.997 7255	2876	5 51	18 21
27	080.5	12 16 7.882	23	+ 2	5 56 11.4	59 22.3	+24	0.998 0131	2868	5 49	18 23
28	081.5	12 20 4.434	20	− 2	6 55 33.7	59 20.3	+10	0.998 2999	2860	5 47	18 25
29	082.5	12 24 0.985	+16	− 6	7 54 54.0	59 18.2	− 4	0.998 5859	2851	5 45	18 26
30	083.5	12 27 57.537	13	− 9	8 54 12.2	59 16.0	−15	0.998 8710	2843	5 42	18 28
31	084.5	12 31 54.089	9	−11	9 53 28.2	59 13.8	−26	0.999 1553	2834	5 40	18 29
April 1	085.5	12 35 50.641	5	−11	10 52 42.0	59 11.6	−34	0.999 4387	2827	5 38	18 31
2	086.5	12 39 47.193	+ 2	−10	11 51 53.6	59 9.4	−41	0.999 7214	2819	5 36	18 33
3	087.5	12 43 43.745	− 2	− 7	12 51 3.0	59 7.0	−44	1.000 0033	2814	5 34	18 34
4	088.5	12 47 40.296	− 5	− 3	13 50 10.0	59 4.8	−45	1.000 2847	2809	5 31	18 36
5	089.5	12 51 36.848	8	+ 1	14 49 14.8	59 2.4	−42	1.000 5656	2806	5 29	18 37
6	090.5	12 55 33.401	12	+ 5	15 48 17.2	59 0.1	−37	1.000 8462	2805	5 27	18 39
7	091.5	12 59 29.953	15	+ 7	16 47 17.3	58 57.8	−29	1.001 1267	2807	5 25	18 40
8	092.5	13 3 26.505	18	+ 7	17 46 15.1	58 55.6	−18	1.001 4074	2811	5 23	18 42
9	093.5	13 7 23.057	21	+ 4	18 45 10.7	58 53.3	− 6	1.001 6885	2817	5 21	18 43
10	094.5	13 11 19.609	−24	− 1	19 44 4.0	58 51.1	+ 7	1.001 9702	2825	5 19	18 45
11	095.5	13 15 16.161	28	− 5	20 42 55.1	58 49.1	+21	1.002 2527	2833	5 17	18 46
12	096.5	13 19 12.714	31	− 9	21 41 44.2	58 47.1	+35	1.002 5360	2841	5 15	18 48
13	097.5	13 23 9.266	34	−10	22 40 31.3	58 45.2	+47	1.002 8201	2846	5 13	18 49
14	098.5	13 27 5.819	36	− 9	23 39 16.5	58 43.4	+56	1.003 1047	2851	5 10	18 51
15	099.5	13 31 2.371	39	− 6	24 37 59.9	58 41.7	+63	1.003 3898	2851	5 8	18 52
16	100.5	13 34 58.924	−42	0	25 36 41.6	58 40.0	+68	1.003 6749	2847	5 6	18 54
17	101.5	13 38 55.477	45	+ 6	26 35 21.6	58 38.3	+69	1.003 9596	2840	5 4	18 56
18	102.5	13 42 52.029	47	+11	27 33 59.9	58 36.6	+66	1.004 2436	2828	5 2	18 57
19	103.5	13 46 48.582	50	+14	28 32 36.5	58 35.1	+61	1.004 5264	2813	5 0	18 59
20	104.5	13 50 45.135	52	+15	29 31 11.6	58 33.4	+53	1.004 8077	2794	4 58	19 0
21	105.5	13 54 41.688	54	+13	30 29 45.0	58 31.7	+43	1.005 0871	2772	4 56	19 2
22	106.5	13 58 38.241	−57	+ 9	31 28 16.7	58 30.0	+31	1.005 3643	2748	4 54	19 4
23	107.5	14 2 34.794	59	+ 5	32 26 46.7	58 28.3	+18	1.005 6391	2720	4 52	19 5
24	108.5	14 6 31.348	61	0	33 25 15.0	58 26.6	+ 5	1.005 9111	2692	4 51	19 7
25	109.5	14 10 27.901	63	− 4	34 23 41.6	58 24.8	− 9	1.006 1803	2661	4 49	19 8
26	110.5	14 14 24.454	65	− 8	35 22 6.4	58 22.9	−21	1.006 4464	2630	4 47	19 10
27	111.5	14 18 21.008	67	−10	36 20 29.3	58 21.2	−31	1.006 7094	2597	4 45	19 12
28	112.5	14 22 17.561	−69	−10	37 18 50.5	58 19.2	−40	1.006 9691	2565	4 43	19 13
29	113.5	14 26 14.115	70	−10	38 17 9.7	58 17.4	−48	1.007 2256	2531	4 42	19 15
30	114.5	14 30 10.669	72	− 7	39 15 27.1	58 15.4	−53	1.007 4787	2500	4 40	19 16
Mai 1	115.5	14 34 7.223	74	− 4	40 13 42.5	58 13.5	−55	1.007 7287	2467	4 38	19 18
2	116.5	14 38 3.777	75	+ 1	41 11 56.0	58 11.5	−54	1.007 9754	2437	4 36	19 19
3	117.5	14 42 0.331	−76	+ 4	42 10 7.5		−50	1.008 2191		4 34	19 21

Tag		Wochentag	Zeitgleichung Wahre Zeit *minus* Mittlere Zeit (0ʰ Welt-Zeit)		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Mai	3	Sa	+3 6.43	6.39	2 38 53.90	3 50.17	+15 29 26.2	17 40.4	66.14	15 53.66
	4	St	3 12.82	5.86	2 42 44.07	3 50.69	15 47 6.6	17 24.7	66.22	15 53.44
	5	Mo	3 18.68	5.32	2 46 34.76	3 51.23	16 4 31.3	17 8.6	66.30	15 53.21
	6	Di	3 24.00	4.78	2 50 25.99	3 51.77	16 21 39.9	16 52.3	66.38	15 52.99
	7	Mi	3 28.78	4.24	2 54 17.76	3 52.32	16 38 32.2	16 35.6	66.47	15 52.77
	8	Do	3 33.02	3.68	2 58 10.08	3 52.88	16 55 7.8	16 18.6	66.55	15 52.55
	9	Fr	+3 36.70	3.12	3 2 2.96	3 53.43	+17 11 26.4	16 1.4	66.63	15 52.33
	10	Sa	3 39.82	2.56	3 5 56.39	3 54.00	17 27 27.8	15 43.9	66.71	15 52.11
	11	St	3 42.38	1.98	3 9 50.39	3 54.58	17 43 11.7	15 26.1	66.79	15 51.90
	12	Mo	3 44.36	1.40	3 13 44.97	3 55.15	17 58 37.8	15 8.0	66.87	15 51.69
	13	Di	3 45.76	0.82	3 17 40.12	3 55.73	18 13 45.8	14 49.6	66.96	15 51.48
	14	Mi	3 46.58	0.23	3 21 35.85	3 56.32	18 28 35.4	14 31.0	67.04	15 51.27
	15	Do	+3 46.81	0.35	3 25 32.17	3 56.91	+18 43 6.4	14 12.1	67.12	15 51.06
	16	Fr	3 46.46	0.94	3 29 29.08	3 57.49	18 57 18.5	13 52.9	67.20	15 50.85
	17	Sa	3 45.52	1.52	3 33 26.57	3 58.08	19 11 11.4	13 33.5	67.28	15 50.65
	18	St	3 44.00	2.10	3 37 24.65	3 58.66	19 24 44.9	13 13.8	67.36	15 50.45
	19	Mo	3 41.90	2.67	3 41 23.31	3 59.22	19 37 58.7	12 53.8	67.44	15 50.26
	20	Di	3 39.23	3.23	3 45 22.53	3 59.79	19 50 52.5	12 33.6	67.52	15 50.06
	21	Mi	+3 36.00	3.79	3 49 22.32	4 0.35	+20 3 26.1	12 13.1	67.60	15 49.87
	22	Do	3 32.21	4.33	3 53 22.67	4 0.89	20 15 39.2	11 52.4	67.67	15 49.69
	23	Fr	3 27.88	4.87	3 57 23.56	4 1.42	20 27 31.6	11 31.4	67.75	15 49.51
	24	Sa	3 23.01	5.39	4 1 24.98	4 1.94	20 39 3.0	11 10.1	67.82	15 49.33
	25	St	3 17.62	5.90	4 5 26.92	4 2.45	20 50 13.1	10 48.7	67.89	15 49.16
	26	Mo	3 11.72	6.39	4 9 29.37	4 2.95	21 1 1.8	10 27.0	67.96	15 48.99
	27	Di	+3 5.33	6.86	4 13 32.32	4 3.42	+21 11 28.8	10 5.0	68.03	15 48.83
	28	Mi	2 58.47	7.33	4 17 35.74	4 3.89	21 21 33.8	9 42.9	68.10	15 48.67
	29	Do	2 51.14	7.78	4 21 39.63	4 4.33	21 31 16.7	9 20.5	68.17	15 48.52
	30	Fr	2 43.36	8.20	4 25 43.96	4 4.75	21 40 37.2	8 57.9	68.23	15 48.37
	31	Sa	2 35.16	8.60	4 29 48.71	4 5.16	21 49 35.1	8 35.2	68.29	15 48.23
Juni	1	St	2 26.56	9.00	4 33 53.87	4 5.56	21 58 10.3	8 12.2	68.35	15 48.09
	2	Mo	+2 17.56	9.38	4 37 59.43	4 5.93	+22 6 22.5	7 49.1	68.40	15 47.96
	3	Di	2 8.18	9.73	4 42 5.36	4 6.29	22 14 11.6	7 25.8	68.45	15 47.83
	4	Mi	1 58.45	10.06	4 46 11.65	4 6.62	22 21 37.4	7 2.4	68.50	15 47.70
	5	Do	1 48.39	10.39	4 50 18.27	4 6.94	22 28 39.8	6 38.7	68.55	15 47.58
	6	Fr	1 38.00	10.68	4 54 25.21	4 7.25	22 35 18.5	6 14.9	68.60	15 47.46
	7	Sa	1 27.32	10.98	4 58 32.46	4 7.53	22 41 33.4	5 51.1	68.65	15 47.34
	8	St	+1 16.34	11.26	5 2 39.99	4 7.81	+22 47 24.5	5 27.0	68.69	15 47.23
	9	Mo	1 5.08	11.51	5 6 47.80	4 8.07	22 52 51.5	5 2.9	68.73	15 47.12
	10	Di	0 53.57	11.75	5 10 55.87	4 8.31	22 57 54.4	4 38.7	68.76	15 47.01
	11	Mi	0 41.82	11.99	5 15 4.18	4 8.54	23 2 33.1	4 14.3	68.79	15 46.91
	12	Do	0 29.83	12.19	5 19 12.72	4 8.75	23 6 47.4	3 50.0	68.82	15 46.80
	13	Fr	+0 17.64		5 23 21.47		+23 10 37.4		68.85	15 46.71

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	0ʰ Welt-Zeit Mittleres Äquinoktium 1941.0 Länge	Diff.	Breite	*R*	Diff.	Aufgang in {+50° Breite, 0ʰ Länge	Untergang in {+50° Breite, 0ʰ Länge
1941	2430	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Mai 3	117.5	14 42 0.331	−76	+ 4	42 10 7.5	58 9.5	−50	1.008 2191	2408	4 34	19 21
4	118.5	14 45 56.885	78	+ 6	43 8 17.0	58 7.5	−43	1.008 4599	2381	4 33	19 22
5	119.5	14 49 53.439	79	+ 6	44 6 24.5	58 5.6	−33	1.008 6980	2357	4 31	19 24
6	120.5	14 53 49.993	80	+ 4	45 4 30.1	58 3.6	−22	1.008 9337	2336	4 29	19 25
7	121.5	14 57 46.548	81	+ 1	46 2 33.7	58 1.6	− 9	1.009 1673	2315	4 27	19 27
8	122.5	15 1 43.102	82	− 4	47 0 35.3	57 59.8	+ 5	1.009 3988	2298	4 26	19 28
9	123.5	15 5 39.656	−83	− 9	47 58 35.1	57 58.1	+18	1.009 6286	2284	4 24	19 30
10	124.5	15 9 36.211	83	−11	48 56 33.2	57 56.3	+29	1.009 8570	2271	4 23	19 31
11	125.5	15 13 32.766	84	−11	49 54 29.5	57 54.8	+40	1.010 0841	2257	4 21	19 33
12	126.5	15 17 29.321	85	− 8	50 52 24.3	57 53.3	+49	1.010 3098	2242	4 19	19 34
13	127.5	15 21 25.876	85	− 3	51 50 17.6	57 51.9	+54	1.010 5340	2224	4 18	19 36
14	128.5	15 25 22.431	85	+ 4	52 48 9.5	57 50.7	+54	1.010 7564	2206	4 16	19 37
15	129.5	15 29 18.986	−86	+ 9	53 46 0.2	57 49.4	+53	1.010 9770	2182	4 15	19 39
16	130.5	15 33 15.541	86	+13	54 43 49.6	57 48.2	+49	1.011 1952	2156	4 13	19 40
17	131.5	15 37 12.096	86	+15	55 41 37.8	57 47.1	+41	1.011 4108	2124	4 12	19 41
18	132.5	15 41 8.651	86	+14	56 39 24.9	57 46.0	+31	1.011 6232	2091	4 11	19 42
19	133.5	15 45 5.207	86	+11	57 37 10.9	57 44.9	+20	1.011 8323	2054	4 9	19 44
20	134.5	15 49 1.762	86	+ 7	58 34 55.8	57 43.7	+ 8	1.012 0377	2014	4 8	19 45
21	135.5	15 52 58.317	−86	+ 2	59 32 39.5	57 42.7	− 5	1.012 2391	1972	4 7	19 46
22	136.5	15 56 54.873	86	− 3	60 30 22.2	57 41.5	−19	1.012 4363	1926	4 6	19 47
23	137.5	16 0 51.429	85	− 7	61 28 3.7	57 40.4	−31	1.012 6289	1880	4 5	19 49
24	138.5	16 4 47.984	85	− 9	62 25 44.1	57 39.3	−42	1.012 8169	1831	4 3	19 50
25	139.5	16 8 44.540	85	−10	63 23 23.4	57 38.1	−51	1.013 0000	1783	4 2	19 52
26	140.5	16 12 41.096	84	− 9	64 21 1.5	57 36.9	−59	1.013 1783	1731	4 1	19 53
27	141.5	16 16 37.652	−84	− 7	65 18 38.4	57 35.7	−63	1.013 3514	1680	4 0	19 54
28	142.5	16 20 34.208	83	− 4	66 16 14.1	57 34.5	−65	1.013 5194	1629	3 59	19 55
29	143.5	16 24 30.764	82	0	67 13 48.6	57 33.2	−64	1.013 6823	1578	3 59	19 56
30	144.5	16 28 27.320	82	+ 4	68 11 21.8	57 32.0	−61	1.013 8401	1528	3 58	19 57
31	145.5	16 32 23.876	81	+ 6	69 8 53.8	57 30.6	−55	1.013 9929	1480	3 57	19 58
Juni 1	146.5	16 36 20.433	80	+ 7	70 6 24.4	57 29.4	−46	1.014 1409	1433	3 56	19 59
2	147.5	16 40 16.989	−79	+ 6	71 3 53.8	57 28.1	−36	1.014 2842	1390	3 55	20 0
3	148.5	16 44 13.545	78	+ 2	72 1 21.9	57 26.8	−24	1.014 4232	1347	3 55	20 1
4	149.5	16 48 10.102	77	− 3	72 58 48.7	57 25.5	−12	1.014 5579	1310	3 54	20 2
5	150.5	16 52 6.658	76	− 7	73 56 14.2	57 24.3	+ 2	1.014 6889	1274	3 53	20 3
6	151.5	16 56 3.215	75	−11	74 53 38.5	57 23.2	+15	1.014 8163	1241	3 53	20 4
7	152.5	16 59 59.771	74	−12	75 51 1.7	57 22.2	+25	1.014 9404	1212	3 52	20 5
8	153.5	17 3 56.328	−73	−10	76 48 23.9	57 21.2	+33	1.015 0616	1182	3 52	20 5
9	154.5	17 7 52.884	71	− 6	77 45 45.1	57 20.4	+39	1.015 1798	1156	3 51	20 6
10	155.5	17 11 49.441	70	0	78 43 5.5	57 19.6	+40	1.015 2954	1126	3 51	20 7
11	156.5	17 15 45.997	69	+ 6	79 40 25.1	57 19.0	+39	1.015 4080	1097	3 51	20 8
12	157.5	17 19 42.554	67	+11	80 37 44.1	57 18.5	+35	1.015 5177	1065	3 51	20 8
13	158.5	17 23 39.111	−66	+14	81 35 2.6		+29	1.015 6242		3 50	20 9

Tag	Wochentag	Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
		0h Welt-Zeit							
1941		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juni 13	Fr	+0 17.64	12.39	5 23 21.47	4 8.94	+23 10 37.4	3 25.4	68.85	15 46.71
14	Sa	+0 5.25	12.56	5 27 30.41	4 9.12	23 14 2.8	3 0.9	68.88	15 46.61
15	St	−0 7.31	12.70	5 31 39.53	4 9.26	23 17 3.7	2 36.3	68.89	15 46.52
16	Mo	0 20.01	12.83	5 35 48.79	4 9.39	23 19 40.0	2 11.5	68.91	15 46.43
17	Di	0 32.84	12.94	5 39 58.18	4 9.50	23 21 51.5	1 46.9	68.92	15 46.35
18	Mi	0 45.78	13.02	5 44 7.68	4 9.57	23 23 38.4	1 22.1	68.93	15 46.27
19	Do	−0 58.80	13.07	5 48 17.25	4 9.63	+23 25 0.5	0 57.3	68.94	15 46.19
20	Fr	1 11.87	13.10	5 52 26.88	4 9.66	23 25 57.8	0 32.5	68.94	15 46.12
21	Sa	1 24.97	13.11	5 56 36.54	4 9.66	23 26 30.3	0 7.8	68.94	15 46.06
22	St	1 38.08	13.08	6 0 46.20	4 9.63	23 26 38.1	0 17.0	68.94	15 46.00
23	Mo	1 51.16	13.02	6 4 55.83	4 9.59	23 26 21.1	0 41.9	68.93	15 45.94
24	Di	2 4.18	12.95	6 9 5.42	4 9.51	23 25 39.2	1 6.6	68.92	15 45.89
25	Mi	−2 17.13	12.85	6 13 14.93	4 9.40	+23 24 32.6	1 31.3	68.91	15 45.85
26	Do	2 29.98	12.71	6 17 24.33	4 9.27	23 23 1.3	1 55.9	68.89	15 45.81
27	Fr	2 42.69	12.55	6 21 33.60	4 9.11	23 21 5.4	2 20.5	68.87	15 45.78
28	Sa	2 55.24	12.37	6 25 42.71	4 8.92	23 18 44.9	2 45.1	68.85	15 45.75
29	St	3 7.61	12.15	6 29 51.63	4 8.71	23 15 59.8	3 9.6	68.82	15 45.73
30	Mo	3 19.76	11.92	6 34 0.34	4 8.47	23 12 50.2	3 34.0	68.80	15 45.71
Juli 1	Di	−3 31.68	11.66	6 38 8.81	4 8.21	+23 9 16.2	3 58.2	68.77	15 45.71
2	Mi	3 43.34	11.37	6 42 17.02	4 7.93	23 5 18.0	4 22.5	68.73	15 45.70
3	Do	3 54.71	11.06	6 46 24.95	4 7.62	23 0 55.5	4 46.5	68.69	15 45.69
4	Fr	4 5.77	10.74	6 50 32.57	4 7.30	22 56 9.0	5 10.5	68.65	15 45.70
5	Sa	4 16.51	10.40	6 54 39.87	4 6.95	22 50 58.5	5 34.4	68.61	15 45.70
6	St	4 26.91	10.03	6 58 46.82	4 6.60	22 45 24.1	5 58.1	68.57	15 45.71
7	Mo	−4 36.94	9.67	7 2 53.42	4 6.22	+22 39 26.0	6 21.6	68.51	15 45.73
8	Di	4 46.61	9.28	7 6 59.64	4 5.83	22 33 4.4	6 45.0	68.46	15 45.74
9	Mi	4 55.89	8.88	7 11 5.47	4 5.44	22 26 19.4	7 8.3	68.40	15 45.76
10	Do	5 4.77	8.47	7 15 10.91	4 5.03	22 19 11.1	7 31.5	68.34	15 45.78
11	Fr	5 13.24	8.05	7 19 15.94	4 4.60	22 11 39.6	7 54.4	68.28	15 45.81
12	Sa	5 21.29	7.61	7 23 20.54	4 4.17	22 3 45.2	8 17.1	68.22	15 45.83
13	St	−5 28.90	7.16	7 27 24.71	4 3.72	+21 55 28.1	8 39.6	68.16	15 45.86
14	Mo	5 36.06	6.70	7 31 28.43	4 3.26	21 46 48.5	9 2.1	68.10	15 45.90
15	Di	5 42.76	6.23	7 35 31.69	4 2.78	21 37 46.4	9 24.2	68.03	15 45.94
16	Mi	5 48.99	5.74	7 39 34.47	4 2.29	21 28 22.2	9 46.2	67.96	15 45.99
17	Do	5 54.73	5.24	7 43 36.76	4 1.80	21 18 36.0	10 7.9	67.88	15 46.04
18	Fr	5 59.97	4.73	7 47 38.56	4 1.29	21 8 28.1	10 29.4	67.81	15 46.09
19	Sa	−6 4.70	4.20	7 51 39.85	4 0.76	+20 57 58.7	10 50.7	67.74	15 46.14
20	St	6 8.90	3.67	7 55 40.61	4 0.22	20 47 8.0	11 11.7	67.66	15 46.20
21	Mo	6 12.57	3.13	7 59 40.83	3 59.68	20 35 56.3	11 32.5	67.58	15 46.28
22	Di	6 15.70	2.56	8 3 40.51	3 59.12	20 24 23.8	11 53.1	67.50	15 46.35
23	Mi	6 18.26	1.99	8 7 39.63	3 58.55	20 12 30.7	12 13.4	67.42	15 46.42
24	Do	−6 20.25		8 11 38.18		+20 0 17.3		67.34	15 46.50

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	*R*		Auf-gang in {+50° Breite, 0ʰ Länge}	Unter-gang in {+50° Breite, 0ʰ Länge}
1941	2430	h m s	in 0.001 s		° ′ ″	′ ″	in 0.01″			h m	h m
Juni 13	158.5	17 23 39.111	−66	+14	81 35 2.6	57 18.0	+29	1.015 6242	1029	3 50	20 9
14	159.5	17 27 35.667	65	+15	82 32 20.6	57 17.6	+20	1.015 7271	991	3 50	20 9
15	160.5	17 31 32.224	63	+13	83 29 38.2	57 17.2	+ 8	1.015 8262	950	3 50	20 10
16	161.5	17 35 28.781	62	+ 9	84 26 55.4	57 17.0	− 5	1.015 9212	907	3 50	20 10
17	162.5	17 39 25.338	61	+ 4	85 24 12.4	57 16.7	−17	1.016 0119	858	3 50	20 11
18	163.5	17 43 21.894	59	− 1	86 21 29.1	57 16.4	−30	1.016 0977	809	3 50	20 11
19	164.5	17 47 18.451	−58	− 6	87 18 45.5	57 16.1	−42	1.016 1786	758	3 50	20 12
20	165.5	17 51 15.008	56	− 8	88 16 1.6	57 15.8	−53	1.016 2544	704	3 50	20 12
21	166.5	17 55 11.565	55	−10	89 13 17.4	57 15.7	−61	1.016 3248	648	3 50	20 12
22	167.5	17 59 8.122	53	− 9	90 10 33.1	57 15.3	−68	1.016 3896	590	3 50	20 12
23	168.5	18 3 4.679	52	− 7	91 7 48.4	57 15.1	−73	1.016 4486	532	3 51	20 13
24	169.5	18 7 1.235	50	− 4	92 5 3.5	57 14.8	−76	1.016 5018	472	3 51	20 13
25	170.5	18 10 57.792	−49	− 1	93 2 18.3	57 14.5	−75	1.016 5490	411	3 51	20 13
26	171.5	18 14 54.349	48	+ 3	93 59 32.8	57 14.1	−72	1.016 5901	351	3 52	20 13
27	172.5	18 18 50.906	46	+ 6	94 56 46.9	57 13.8	−66	1.016 6252	291	3 52	20 13
28	173.5	18 22 47.462	45	+ 7	95 54 0.7	57 13.4	−58	1.016 6543	233	3 53	20 13
29	174.5	18 26 44.019	43	+ 7	96 51 14.1	57 13.1	−47	1.016 6776	176	3 53	20 13
30	175.5	18 30 40.576	42	+ 4	97 48 27.2	57 12.6	−35	1.016 6952	121	3 54	20 13
Juli 1	176.5	18 34 37.133	−41	− 1	98 45 39.8	57 12.2	−23	1.016 7073	70	3 55	20 13
2	177.5	18 38 33.689	39	− 6	99 42 52.0	57 11.8	−10	1.016 7143	21	3 55	20 12
3	178.5	18 42 30.246	38	−10	100 40 3.8	57 11.5	+ 2	1.016 7164	$\overline{23}$	3 56	20 12
4	179.5	18 46 26.802	37	−12	101 37 15.3	57 11.2	+13	1.016 7141	66	3 56	20 11
5	180.5	18 50 23.359	36	−12	102 34 26.5	57 10.9	+22	1.016 7075	104	3 57	20 11
6	181.5	18 54 19.916	35	− 9	103 31 37.4	57 10.8	+28	1.016 6971	139	3 58	20 10
7	182.5	18 58 16.472	−33	− 3	104 28 48.2	57 10.8	+30	1.016 6832	174	3 59	20 10
8	183.5	19 2 13.028	32	+ 3	105 25 59.0	57 10.8	+29	1.016 6658	206	3 59	20 9
9	184.5	19 6 9.585	31	+ 9	106 23 9.8	57 10.9	+26	1.016 6452	239	4 0	20 9
10	185.5	19 10 6.141	30	+12	107 20 20.7	57 11.2	+20	1.016 6213	271	4 1	20 8
11	186.5	19 14 2.698	29	+14	108 17 31.9	57 11.6	+10	1.016 5942	307	4 2	20 7
12	187.5	19 17 59.254	28	+13	109 14 43.5	57 12.0	0	1.016 5635	344	4 3	20 6
13	188.5	19 21 55.810	−28	+10	110 11 55.5	57 12.5	−12	1.016 5291	382	4 4	20 6
14	189.5	19 25 52.366	27	+ 6	111 9 8.0	57 13.1	−25	1.016 4909	425	4 5	20 5
15	190.5	19 29 48.922	26	+ 1	112 6 21.1	57 13.7	−38	1.016 4484	469	4 6	20 4
16	191.5	19 33 45.478	25	− 4	113 3 34.8	57 14.3	−51	1.016 4015	515	4 7	20 3
17	192.5	19 37 42.034	25	− 7	114 0 49.1	57 15.0	−62	1.016 3500	563	4 8	20 2
18	193.5	19 41 38.590	24	− 9	114 58 4.1	57 15.6	−71	1.016 2937	615	4 10	20 1
19	194.5	19 45 35.146	−24	−10	115 55 19.7	57 16.4	−79	1.016 2322	667	4 11	20 0
20	195.5	19 49 31.702	23	− 8	116 52 36.1	57 17.0	−84	1.016 1655	721	4 12	19 59
21	196.5	19 53 28.258	23	− 6	117 49 53.1	57 17.8	−87	1.016 0934	777	4 13	19 58
22	197.5	19 57 24.813	23	− 2	118 47 10.9	57 18.4	−86	1.016 0157	834	4 15	19 57
23	198.5	20 1 21.369	22	+ 2	119 44 29.3	57 19.1	−82	1.015 9323	893	4 16	19 55
24	199.5	20 5 17.924	−22	+ 6	120 41 48.4		−77	1.015 8430		4 18	19 54

Sonne 1941

Tag		Wochentag	0ʰ Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Juli	24	Do	−6 20.25	1.41	8 11 38.18	3 57.97	+20 0 17.3	12 33.4	67.34	15 46.50
	25	Fr	6 21.66	0.83	8 15 36.15	3 57.37	19 47 43.9	12 53.1	67.26	15 46.59
	26	Sa	6 22.49	0.22	8 19 33.52	3 56.78	19 34 50.8	13 12.6	67.18	15 46.69
	27	St	6 22.71	0.38	8 23 30.30	3 56.17	19 21 38.2	13 31.8	67.09	15 46.78
	28	Mo	6 22.33	1.00	8 27 26.47	3 55.56	19 8 6.4	13 50.7	67.01	15 46.89
	29	Di	6 21.33	1.62	8 31 22.03	3 54.93	18 54 15.7	14 9.3	66.92	15 47.00
	30	Mi	−6 19.71	2.25	8 35 16.96	3 54.31	+18 40 6.4	14 27.7	66.83	15 47.11
	31	Do	6 17.46	2.87	8 39 11.27	3 53.69	18 25 38.7	14 45.8	66.75	15 47.24
Aug.	1	Fr	6 14.59	3.50	8 43 4.96	3 53.05	18 10 52.9	15 3.5	66.66	15 47.36
	2	Sa	6 11.09	4.13	8 46 58.01	3 52.43	17 55 49.4	15 21.1	66.57	15 47.49
	3	St	6 6.96	4.75	8 50 50.44	3 51.80	17 40 28.3	15 38.3	66.49	15 47.62
	4	Mo	6 2.21	5.36	8 54 42.24	3 51.19	17 24 50.0	15 55.2	66.40	15 47.76
	5	Di	−5 56.85	5.98	8 58 33.43	3 50.58	+17 8 54.8	16 11.8	66.31	15 47.89
	6	Mi	5 50.87	6.58	9 2 24.01	3 49.98	16 52 43.0	16 28.2	66.23	15 48.03
	7	Do	5 44.29	7.17	9 6 13.99	3 49.38	16 36 14.8	16 44.3	66.14	15 48.17
	8	Fr	5 37.12	7.76	9 10 3.37	3 48.80	16 19 30.5	17 0.0	66.05	15 48.32
	9	Sa	5 29.36	8.33	9 13 52.17	3 48.22	16 2 30.5	17 15.6	65.97	15 48.47
	10	St	5 21.03	8.90	9 17 40.39	3 47.65	15 45 14.9	17 30.7	65.88	15 48.62
	11	Mo	−5 12.13	9.45	9 21 28.04	3 47.10	+15 27 44.2	17 45.7	65.80	15 48.77
	12	Di	5 2.68	10.00	9 25 15.14	3 46.55	15 9 58.5	18 0.2	65.72	15 48.92
	13	Mi	4 52.68	10.54	9 29 1.69	3 46.02	14 51 58.3	18 14.6	65.64	15 49.08
	14	Do	4 42.14	11.07	9 32 47.71	3 45.49	14 33 43.7	18 28.5	65.56	15 49.24
	15	Fr	4 31.07	11.59	9 36 33.20	3 44.96	14 15 15.2	18 42.1	65.48	15 49.41
	16	Sa	4 19.48	12.10	9 40 18.16	3 44.45	13 56 33.1	18 55.6	65.40	15 49.58
	17	St	−4 7.38	12.60	9 44 2.61	3 43.96	+13 37 37.5	19 8.6	65.32	15 49.75
	18	Mo	3 54.78	13.08	9 47 46.57	3 43.47	13 18 28.9	19 21.3	65.25	15 49.93
	19	Di	3 41.70	13.57	9 51 30.04	3 42.98	12 59 7.6	19 33.7	65.17	15 50.11
	20	Mi	3 28.13	14.05	9 55 13.02	3 42.51	12 39 33.9	19 45.8	65.10	15 50.30
	21	Do	3 14.08	14.51	9 58 55.53	3 42.04	12 19 48.1	19 57.5	65.03	15 50.48
	22	Fr	2 59.57	14.96	10 2 37.57	3 41.59	11 59 50.6	20 9.0	64.96	15 50.67
	23	Sa	−2 44.61	15.40	10 6 19.16	3 41.15	+11 39 41.6	20 20.0	64.90	15 50.87
	24	St	2 29.21	15.84	10 10 0.31	3 40.71	11 19 21.6	20 30.7	64.83	15 51.07
	25	Mo	2 13.37	16.27	10 13 41.02	3 40.29	10 58 50.9	20 41.2	64.77	15 51.28
	26	Di	1 57.10	16.69	10 17 21.31	3 39.86	10 38 9.7	20 51.2	64.71	15 51.49
	27	Mi	1 40.41	17.09	10 21 1.17	3 39.46	10 17 18.5	21 1.0	64.65	15 51.71
	28	Do	1 23.32	17.49	10 24 40.63	3 39.07	9 56 17.5	21 10.3	64.60	15 51.93
	29	Fr	−1 5.83	17.86	10 28 19.70	3 38.69	+ 9 35 7.2	21 19.5	64.54	15 52.15
	30	Sa	0 47.97	18.22	10 31 58.39	3 38.33	9 13 47.7	21 28.2	64.49	15 52.38
	31	St	0 29.75	18.57	10 35 36.72	3 37.99	8 52 19.5	21 36.6	64.44	15 52.60
Sept.	1	Mo	−0 11.18	18.89	10 39 14.71	3 37.66	8 30 42.9	21 44.8	64.39	15 52.83
	2	Di	+0 7.71	19.20	10 42 52.37	3 37.35	8 8 58.1	21 52.6	64.35	15 53.07
	3	Mi	+0 26.91		10 46 29.72		+ 7 47 5.5		64.31	15 53.30

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	R		Aufgang in {+50° Breite, 0h Länge}	Untergang in {+50° Breite, 0h Länge}
	0h Welt-Zeit										
1941	2430	h m s	in 0.001 s		° ′ ″	′ ″	″ in 0.01			h m	h m
Juli 24	199.5	20 5 17.924	−22	+ 6	120 41 48.4	57 19.8	−77	1.015 8430	952	4 18	19 54
25	200.5	20 9 14.480	22	+ 8	121 39 8.2	57 20.3	−69	1.015 7478	1011	4 19	19 53
26	201.5	20 13 11.035	22	+ 8	122 36 28.5	57 21.0	−59	1.015 6467	1070	4 20	19 52
27	202.5	20 17 7.590	22	+ 6	123 33 49.5	57 21.5	−46	1.015 5397	1127	4 21	19 50
28	203.5	20 21 4.146	22	+ 2	124 31 11.0	57 22.0	−32	1.015 4270	1181	4 23	19 49
29	204.5	20 25 0.701	23	− 3	125 28 33.0	57 22.6	−20	1.015 3089	1232	4 24	19 47
30	205.5	20 28 57.256	−23	− 7	126 25 55.6	57 23.1	− 7	1.015 1857	1280	4 25	19 46
31	206.5	20 32 53.811	23	−10	127 23 18.7	57 23.6	+ 4	1.015 0577	1326	4 26	19 45
Aug. 1	207.5	20 36 50.366	24	−11	128 20 42.3	57 24.1	+13	1.014 9251	1366	4 28	19 43
2	208.5	20 40 46.920	25	− 9	129 18 6.4	57 24.8	+21	1.014 7885	1404	4 29	19 42
3	209.5	20 44 43.475	25	− 5	130 15 31.2	57 25.4	+24	1.014 6481	1437	4 31	19 40
4	210.5	20 48 40.030	26	+ 1	131 12 56.6	57 26.2	+24	1.014 5044	1469	4 32	19 39
5	211.5	20 52 36.584	−27	+ 6	132 10 22.8	57 27.0	+21	1.014 3575	1497	4 34	19 37
6	212.5	20 56 33.139	28	+10	133 7 49.8	57 27.9	+16	1.014 2078	1524	4 35	19 35
7	213.5	21 0 29.693	29	+13	134 5 17.7	57 29.0	+ 7	1.014 0554	1550	4 37	19 34
8	214.5	21 4 26.247	30	+13	135 2 46.7	57 30.1	− 4	1.013 9004	1576	4 38	19 32
9	215.5	21 8 22.802	31	+10	136 0 16.8	57 31.3	−17	1.013 7428	1604	4 40	19 30
10	216.5	21 12 19.356	32	+ 6	136 57 48.1	57 32.5	−29	1.013 5824	1631	4 41	19 28
11	217.5	21 16 15.910	−33	+ 2	137 55 20.6	57 33.9	−42	1.013 4193	1662	4 43	19 26
12	218.5	21 20 12.464	35	− 3	138 52 54.5	57 35.4	−55	1.013 2531	1694	4 44	19 25
13	219.5	21 24 9.018	36	− 7	139 50 29.9	57 36.7	−66	1.013 0837	1727	4 46	19 23
14	220.5	21 28 5.571	38	− 9	140 48 6.6	57 38.3	−76	1.012 9110	1763	4 47	19 21
15	221.5	21 32 2.125	40	−10	141 45 44.9	57 39.8	−84	1.012 7347	1799	4 48	19 19
16	222.5	21 35 58.679	41	− 9	142 43 24.7	57 41.3	−89	1.012 5548	1839	4 50	19 17
17	223.5	21 39 55.232	−43	− 7	143 41 6.0	57 42.8	−92	1.012 3709	1879	4 51	19 16
18	224.5	21 43 51.786	45	− 3	144 38 48.8	57 44.5	−93	1.012 1830	1921	4 53	19 14
19	225.5	21 47 48.339	47	+ 1	145 36 33.3	57 46.0	−89	1.011 9909	1965	4 54	19 12
20	226.5	21 51 44.892	49	+ 5	146 34 19.3	57 47.5	−83	1.011 7944	2011	4 56	19 10
21	227.5	21 55 41.446	51	+ 7	147 32 6.8	57 49.1	−74	1.011 5933	2057	4 57	19 8
22	228.5	21 59 37.999	54	+ 8	148 29 55.9	57 50.5	−64	1.011 3876	2105	4 59	19 6
23	229.5	22 3 34.552	−56	+ 7	149 27 46.4	57 52.0	−52	1.011 1771	2153	5 0	19 4
24	230.5	22 7 31.105	58	+ 3	150 25 38.4	57 53.4	−38	1.010 9618	2199	5 2	19 2
25	231.5	22 11 27.658	61	− 1	151 23 31.8	57 54.8	−24	1.010 7419	2244	5 3	19 0
26	232.5	22 15 24.210	63	− 6	152 21 26.6	57 56.0	−10	1.010 5175	2286	5 5	18 58
27	233.5	22 19 20.763	66	− 9	153 19 22.6	57 57.3	+ 2	1.010 2889	2325	5 6	18 56
28	234.5	22 23 17.316	68	−10	154 17 19.9	57 58.6	+13	1.010 0564	2360	5 8	18 54
29	235.5	22 27 13.869	−71	− 9	155 15 18.5	57 59.9	+21	1.009 8204	2390	5 9	18 52
30	236.5	22 31 10.421	74	− 6	156 13 18.4	58 1.2	+26	1.009 5814	2418	5 11	18 50
31	237.5	22 35 6.974	77	− 1	157 11 19.6	58 2.6	+28	1.009 3396	2441	5 12	18 48
Sept. 1	238.5	22 39 3.526	80	+ 5	158 9 22.2	58 3.9	+25	1.009 0955	2460	5 14	18 45
2	239.5	22 43 0.078	83	+10	159 7 26.1	58 5.4	+20	1.008 8495	2477	5 15	18 43
3	240.5	22 46 56.631	−86	+12	160 5 31.5		+12	1.008 6018		5 17	18 41

Tag		Wochentag	0ʰ Welt-Zeit							
			Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941			m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Sept.	3	Mi	+ 0 26.91	19.48	10 46 29.72	3 37.08	+7 47 5.5	22 0.1	64.31	15 53.30
	4	Do	0 46.39	19.74	10 50 6.80	3 36.81	7 25 5.4	22 7.2	64.27	15 53.54
	5	Fr	1 6.13	19.98	10 53 43.61	3 36.56	7 2 58.2	22 14.2	64.23	15 53.77
	6	Sa	1 26.11	20.21	10 57 20.17	3 36.35	6 40 44.0	22 20.7	64.19	15 54.01
	7	St	1 46.32	20.40	11 0 56.52	3 36.15	6 18 23.3	22 27.1	64.16	15 54.25
	8	Mo	2 6.72	20.58	11 4 32.67	3 35.97	5 55 56.2	22 33.0	64.13	15 54.49
	9	Di	+ 2 27.30	20.73	11 8 8.64	3 35.82	+5 33 23.2	22 38.6	64.11	15 54.73
	10	Mi	2 48.03	20.87	11 11 44.46	3 35.69	5 10 44.6	22 43.9	64.08	15 54.97
	11	Do	3 8.90	20.98	11 15 20.15	3 35.57	4 48 0.7	22 49.0	64.06	15 55.22
	12	Fr	3 29.88	21.07	11 18 55.72	3 35.48	4 25 11.7	22 53.6	64.05	15 55.46
	13	Sa	3 50.95	21.14	11 22 31.20	3 35.41	4 2 18.1	22 58.0	64.04	15 55.71
	14	St	4 12.09	21.20	11 26 6.61	3 35.35	3 39 20.1	23 2.1	64.03	15 55.96
	15	Mo	+ 4 33.29	21.23	11 29 41.96	3 35.33	+3 16 18.0	23 5.7	64.02	15 56.21
	16	Di	4 54.52	21.24	11 33 17.29	3 35.31	2 53 12.3	23 9.2	64.01	15 56.46
	17	Mi	5 15 76	21.24	11 36 52.60	3 35.31	2 30 3.1	23 12.1	64.01	15 56.72
	18	Do	5 37.00	21.21	11 40 27.91	3 35.34	2 6 51.0	23 14.9	64.01	15 56.97
	19	Fr	5 58.21	21.17	11 44 3.25	3 35.38	1 43 36.1	23 17.2	64.01	15 57.23
	20	Sa	6 19.38	21.12	11 47 38.63	3 35.44	1 20 18.9	23 19.2	64.01	15 57.49
	21	St	+ 6 40.50	21.04	11 51 14.07	3 35.50	+0 56 59.7	23 20.8	64.02	15 57.75
	22	Mo	7 1.54	20.96	11 54 49.57	3 35.60	0 33 38.9	23 22.0	64.04	15 58.02
	23	Di	7 22.50	20.85	11 58 25.17	3 35.70	+0 10 16.9	23 23.0	64.06	15 58.29
	24	Mi	7 43.35	20.74	12 2 0.87	3 35.81	−0 13 6.1	23 23.4	64.08	15 58.57
	25	Do	8 4.09	20.59	12 5 36.68	3 35.96	0 36 29.5	23 23.7	64.10	15 58.84
	26	Fr	8 24.68	20.45	12 9 12.64	3 36.11	0 59 53.2	23 23.5	64.12	15 59.12
	27	Sa	+ 8 45.13	20.27	12 12 48.75	3 36.28	−1 23 16.7	23 23.0	64.15	15 59.40
	28	St	9 5.40	20.07	12 16 25.03	3 36.48	1 46 39.7	23 22.1	64.18	15 59.68
	29	Mo	9 25.47	19.85	12 20 1.51	3 36.70	2 10 1.8	23 20.9	64.21	15 59.95
	30	Di	9 45.32	19.62	12 23 38.21	3 36.93	2 33 22.7	23 19.3	64.24	16 0.24
Okt.	1	Mi	10 4.94	19.36	12 27 15.14	3 37.20	2 56 42.0	23 17.4	64.28	16 0.52
	2	Do	10 24.30	19.07	12 30 52.34	3 37.48	3 19 59.4	23 15.1	64.33	16 0.80
	3	Fr	+10 43.37	18.76	12 34 29.82	3 37.79	−3 43 14.5	23 12.6	64.37	16 1.08
	4	Sa	11 2.13	18.43	12 38 7.61	3 38.12	4 6 27.1	23 9.6	64.42	16 1.36
	5	St	11 20.56	18.07	12 41 45.73	3 38.48	4 29 36.7	23 6.4	64.47	16 1.63
	6	Mo	11 38.63	17.70	12 45 24.21	3 38.85	4 52 43.1	23 2.7	64.53	16 1.91
	7	Di	11 56.33	17.29	12 49 3.06	3 39.26	5 15 45.8	22 58.8	64.59	16 2.18
	8	Mi	12 13.62	16.87	12 52 42.32	3 39.69	5 38 44.6	22 54.4	64.65	16 2.46
	9	Do	+12 30.49	16.42	12 56 22.01	3 40.13	−6 1 39.0	22 49.8	64.71	16 2.73
	10	Fr	12 46.91	15.95	13 0 2.14	3 40.60	6 24 28.8	22 44.7	64.77	16 3.01
	11	Sa	13 2.86	15.47	13 3 42.74	3 41.08	6 47 13.5	22 39.4	64.84	16 3.28
	12	St	13 18.33	14.95	13 7 23.82	3 41.60	7 9 52.9	22 33.5	64.91	16 3.55
	13	Mo	13 33.28	14.43	13 11 5.42	3 42.13	7 32 26.4	22 27.5	64.99	16 3.82
	14	Di	+13 47.71		13 14 47.55		−7 54 53.9		65.06	16 4.09

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	*R*		Aufgang in {+50° Breite, 0h Länge	Untergang in {+50° Breite, 0h Länge
1941	2430	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Sept. 3	240.5	22 46 56.631	− 86	+12	160 5 31.5	58 6.9	+12	1.008 6018	2491	5 17	18 41
4	241.5	22 50 53.183	89	+13	161 3 38.4	58 8.5	+ 2	1.008 3527	2503	5 18	18 39
5	242.5	22 54 49.735	92	+11	162 1 46.9	58 10.2	−10	1.008 1024	2513	5 20	18 37
6	243.5	22 58 46.287	96	+ 7	162 59 57.1	58 11.9	−22	1.007 8511	2523	5 21	18 34
7	244.5	23 2 42.839	99	+ 3	163 58 9.0	58 13.8	−36	1.007 5988	2533	5 23	18 32
8	245.5	23 6 39.391	102	− 2	164 56 22.8	58 15.7	−49	1.007 3455	2544	5 24	18 30
9	246.5	23 10 35.943	−105	− 6	165 54 38.5	58 17.7	−61	1.007 0911	2556	5 26	18 28
10	247.5	23 14 32.495	109	− 9	166 52 56.2	58 19.6	−70	1.006 8355	2569	5 27	18 26
11	248.5	23 18 29.047	112	−10	167 51 15.8	58 21.8	−78	1.006 5786	2582	5 29	18 24
12	249.5	23 22 25.599	116	−10	168 49 37.6	58 23.8	−84	1.006 3204	2597	5 30	18 22
13	250.5	23 26 22.151	119	− 8	169 48 1.4	58 25.9	−87	1.006 0607	2614	5 32	18 20
14	251.5	23 30 18.703	123	− 5	170 46 27.3	58 28.1	−88	1.005 7993	2632	5 33	18 18
15	252.5	23 34 15.254	−126	− 1	171 44 55.4	58 30.2	−85	1.005 5361	2652	5 35	18 15
16	253.5	23 38 11.806	130	+ 2	172 43 25.6	58 32.4	−80	1.005 2709	2672	5 36	18 13
17	254.5	23 42 8.358	134	+ 6	173 41 58.0	58 34.5	−72	1.005 0037	2697	5 38	18 10
18	255.5	23 46 4.910	137	+ 7	174 40 32.5	58 36.6	−63	1.004 7340	2722	5 39	18 8
19	256.5	23 50 1.461	141	+ 7	175 39 9.1	58 38.7	−50	1.004 4618	2748	5 41	18 6
20	257.5	23 53 58.013	145	+ 4	176 37 47.8	58 40.8	−36	1.004 1870	2776	5 42	18 4
21	258.5	23 57 54.565	−148	0	177 36 28.6	58 42.7	−22	1.003 9094	2803	5 44	18 1
22	259.5	0 1 51.117	152	− 4	178 35 11.3	58 44.7	− 8	1.003 6291	2829	5 45	17 59
23	260.5	0 5 47.668	156	− 8	179 33 56.0	58 46.4	+ 5	1.003 3462	2855	5 47	17 57
24	261.5	0 9 44.220	159	−10	180 32 42.4	58 48.3	+17	1.003 0607	2876	5 48	17 55
25	262.5	0 13 40.772	163	−10	181 31 30.7	58 50.0	+26	1.002 7731	2895	5 50	17 53
26	263.5	0 17 37.323	167	− 6	182 30 20.7	58 51.7	+33	1.002 4836	2909	5 51	17 50
27	264.5	0 21 33.875	−170	− 1	183 29 12.4	58 53.4	+36	1.002 1927	2920	5 53	17 48
28	265.5	0 25 30.427	174	+ 4	184 28 5.8	58 55.1	+34	1.001 9007	2926	5 54	17 46
29	266.5	0 29 26.978	178	+10	185 27 0.9	58 56.9	+31	1.001 6081	2927	5 56	17 44
30	267.5	0 33 23.530	181	+13	186 25 57.8	58 58.6	+25	1.001 3154	2926	5 57	17 42
Okt. 1	268.5	0 37 20.082	185	+14	187 24 56.4	59 0.4	+15	1.001 0228	2920	5 59	17 39
2	269.5	0 41 16.633	189	+12	188 23 56.8	59 2.2	+ 4	1.000 7308	2913	6 0	17 37
3	270.5	0 45 13.185	−192	+ 9	189 22 59.0	59 4.2	− 9	1.000 4395	2904	6 2	17 35
4	271.5	0 49 9.737	196	+ 4	190 22 3.2	59 6.1	−21	1.000 1491	2892	6 4	17 33
5	272.5	0 53 6.289	199	0	191 21 9.3	59 8.2	−34	0.999 8599	2880	6 5	17 31
6	273.5	0 57 2.841	203	− 4	192 20 17.5	59 10.3	−46	0.999 5719	2867	6 7	17 29
7	274.5	1 0 59.393	206	− 7	193 19 27.8	59 12.4	−56	0.999 2852	2854	6 8	17 27
8	275.5	1 4 55.945	209	− 9	194 18 40.2	59 14.6	−65	0.998 9998	2840	6 10	17 25
9	276.5	1 8 52.497	−213	−10	195 17 54.8	59 16.7	−72	0.998 7158	2829	6 12	17 23
10	277.5	1 12 49.049	216	− 9	196 17 11.5	59 19.1	−76	0.998 4329	2818	6 13	17 21
11	278.5	1 16 45.601	219	− 6	197 16 30.6	59 21.3	−78	0.998 1511	2807	6 15	17 18
12	279.5	1 20 42.153	222	− 3	198 15 51.9	59 23.6	−76	0.997 8704	2797	6 16	17 16
13	280.5	1 24 38.706	225	+ 1	199 15 15.5	59 25.9	−72	0.997 5907	2789	6 18	17 14
14	281.5	1 28 35.258	−229	+ 4	200 14 41.4		−65	0.997 3118		6 20	17 12

Tag	Wochentag	Zeitgleichung Wahre Zeit *minus* Mittlere Zeit m s	s	Scheinbare Rektaszension h m s	m s	Scheinbare Deklination ° ′ ″	′ ″	Halbe Durchgangs-Dauer St.-Zt. s	Halbmesser ′ ″
1941		0ʰ Welt-Zeit							
Okt. 14	Di	+13 47.71	13.88	13 14 47.55	3 42.68	−7 54 53.9	22 20.9	65.06	16 4.09
15	Mi	14 1.59	13.31	13 18 30.23	3 43.24	8 17 14.8	22 14.0	65.14	16 4.36
16	Do	14 14.90	12.73	13 22 13.47	3 43.82	8 39 28.8	22 6.8	65.22	16 4.63
17	Fr	14 27.63	12.13	13 25 57.29	3 44.42	9 1 35.6	21 59.1	65.31	16 4.90
18	Sa	14 39.76	11.51	13 29 41.71	3 45.04	9 23 34.7	21 51.1	65.39	16 5.17
19	St	14 51.27	10.89	13 33 26.75	3 45.66	9 45 25.8	21 42.6	65.48	16 5.44
20	Mo	+15 2.16	10.26	13 37 12.41	3 46.30	−10 7 8.4	21 33.7	65.58	16 5.71
21	Di	15 12.42	9.61	13 40 58.71	3 46.94	10 28 42.1	21 24.4	65.67	16 5.97
22	Mi	15 22.03	8.94	13 44 45.65	3 47.61	10 50 6.5	21 14.7	65.77	16 6.24
23	Do	15 30.97	8.28	13 48 33.26	3 48.27	11 11 21.2	21 4.6	65.87	16 6.52
24	Fr	15 39.25	7.60	13 52 21.53	3 48.96	11 32 25.8	20 54.1	65.97	16 6.79
25	Sa	15 46.85	6.91	13 56 10.49	3 49.64	11 53 19.9	20 43.1	66.07	16 7.06
26	St	+15 53.76	6.21	14 0 0.13	3 50.35	−12 14 3.0	20 31.7	66.17	16 7.33
27	Mo	15 59.97	5.49	14 3 50.48	3 51.06	12 34 34.7	20 20.0	66.28	16 7.60
28	Di	16 5.46	4.76	14 7 41.54	3 51.80	12 54 54.7	20 7.8	66.38	16 7.87
29	Mi	16 10.22	4.01	14 11 33.34	3 52.53	13 15 2.5	19 55.3	66.49	16 8.13
30	Do	16 14.23	3.26	14 15 25.87	3 53.30	13 34 57.8	19 42.4	66.60	16 8.40
31	Fr	16 17.49	2.49	14 19 19.17	3 54.06	13 54 40.2	19 29.0	66.71	16 8.65
Nov. 1	Sa	+16 19.98	1.71	14 23 13.23	3 54.85	−14 14 9.2	19 15.2	66.83	16 8.91
2	St	16 21.69	0.91	14 27 8.08	3 55.64	14 33 24.4	19 1.1	66.94	16 9.17
3	Mo	16 22.60	0.11	14 31 3.72	3 56.45	14 52 25.5	18 46.6	67.05	16 9.42
4	Di	16 22.71	0.72	14 35 0.17	3 57.26	15 11 12.1	18 31.6	67.17	16 9.66
5	Mi	16 21.99	1.54	14 38 57.43	3 58.10	15 29 43.7	18 16.4	67.29	16 9.91
6	Do	16 20.45	2.37	14 42 55.53	3 58.93	15 48 0.1	18 0.6	67.40	16 10.14
7	Fr	+16 18.08	3.23	14 46 54.46	3 59.78	−16 6 0.7	17 44.6	67.52	16 10.37
8	Sa	16 14.85	4.07	14 50 54.24	4 0.63	16 23 45.3	17 28.0	67.64	16 10.61
9	St	16 10.78	4.94	14 54 54.87	4 1.49	16 41 13.3	17 11.1	67.76	16 10.85
10	Mo	16 5.84	5.80	14 58 56.36	4 2.36	16 58 24.4	16 53.8	67.88	16 11.07
11	Di	16 0.04	6.67	15 2 58.72	4 3.22	17 15 18.2	16 36.2	68.00	16 11.30
12	Mi	15 53.37	7.53	15 7 1.94	4 4.09	17 31 54.4	16 18.0	68.12	16 11.52
13	Do	+15 45.84	8.41	15 11 6.03	4 4.96	−17 48 12.4	15 59.5	68.24	16 11.73
14	Fr	15 37.43	9.27	15 15 10.99	4 5.83	18 4 11.9	15 40.7	68.36	16 11.95
15	Sa	15 28.16	10.14	15 19 16.82	4 6.69	18 19 52.6	15 21.5	68.48	16 12.16
16	St	15 18.02	10.99	15 23 23.51	4 7.55	18 35 14.1	15 1.8	68.60	16 12.37
17	Mo	15 7.03	11.84	15 27 31.06	4 8.40	18 50 15.9	14 41.7	68.71	16 12.58
18	Di	14 55.19	12.68	15 31 39.46	4 9.23	19 4 57.6	14 21.3	68.83	16 12.78
19	Mi	+14 42.51	13.51	15 35 48.69	4 10.06	−19 19 18.9	14 0.4	68.94	16 12.98
20	Do	14 29.00	14.32	15 39 58.75	4 10.88	19 33 19.3	13 39.2	69.06	16 13.19
21	Fr	14 14.68	15.12	15 44 9.63	4 11.67	19 46 58.5	13 17.6	69.17	16 13.39
22	Sa	13 59.56	15.90	15 48 21.30	4 12.46	20 0 16.1	12 55.6	69.28	16 13.58
23	St	13 43.66	16.67	15 52 33.76	4 13.22	20 13 11.7	12 33.2	69.39	16 13.78
24	Mo	+13 26.99		15 56 46.98		−20 25 44.9		69.50	16 13.98

Tag	0h Welt-Zeit: Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	R		Auf-gang in {+50° Breite, 0h Länge	Unter-gang
1941	2430	h m s	s in 0.001		° ′ ″	′ ″	″ in 0.01			h m	h m
Okt. 14	281.5	1 28 35.258	−229	+ 4	200 14 41.4	59 28.3	−65	0.997 3118	2784	6 20	17 12
15	282.5	1 32 31.810	232	+ 6	201 14 9.7	59 30.5	−55	0.997 0334	2780	6 21	17 10
16	283.5	1 36 28.363	234	+ 7	202 13 40.2	59 32.9	−43	0.996 7554	2777	6 23	17 8
17	284.5	1 40 24.915	237	+ 4	203 13 13.1	59 35.1	−31	0.996 4777	2777	6 24	17 6
18	285.5	1 44 21.468	240	+ 1	204 12 48.2	59 37.3	−17	0.996 2000	2779	6 26	17 4
19	286.5	1 48 18.020	243	− 4	205 12 25.5	59 39.4	− 3	0.995 9221	2781	6 28	17 2
20	287.5	1 52 14.573	−245	− 8	206 12 4.9	59 41.5	+11	0.995 6440	2785	6 29	17 0
21	288.5	1 56 11.126	248	−11	207 11 46.4	59 43.5	+24	0.995 3655	2788	6 31	16 58
22	289.5	2 0 7.679	251	−11	208 11 29.9	59 45.4	+33	0.995 0867	2788	6 32	16 56
23	290.5	2 4 4.232	253	− 8	209 11 15.3	59 47.1	+41	0.994 8079	2786	6 34	16 54
24	291.5	2 8 0.785	255	− 3	210 11 2.4	59 48.9	+45	0.994 5293	2782	6 36	16 52
25	292.5	2 11 57.338	258	+ 3	211 10 51.3	59 50.6	+46	0.994 2511	2772	6 37	16 50
26	293.5	2 15 53.891	−260	+ 9	212 10 41.9	59 52.2	+43	0.993 9739	2760	6 39	16 49
27	294.5	2 19 50.444	262	+13	213 10 34.1	59 53.8	+37	0.993 6979	2741	6 40	16 47
28	295.5	2 23 46.998	264	+15	214 10 27.9	59 55.5	+29	0.993 4238	2720	6 42	16 45
29	296.5	2 27 43.551	266	+14	215 10 23.4	59 57.2	+19	0.993 1518	2694	6 44	16 43
30	297.5	2 31 40.105	267	+11	216 10 20.6	59 58.8	+ 7	0.992 8824	2667	6 45	16 41
31	298.5	2 35 36.658	269	+ 7	217 10 19.4	60 0.5	− 6	0.992 6157	2636	6 47	16 40
Nov. 1	299.5	2 39 33.212	−271	+ 2	218 10 19.9	60 2.2	−19	0.992 3521	2603	6 48	16 38
2	300.5	2 43 29.766	272	− 3	219 10 22.1	60 4.0	−30	0.992 0918	2568	6 50	16 36
3	301.5	2 47 26.320	274	− 6	220 10 26.1	60 5.7	−40	0.991 8350	2532	6 52	16 34
4	302.5	2 51 22.874	275	− 9	221 10 31.8	60 7.6	−49	0.991 5818	2495	6 54	16 33
5	303.5	2 55 19.428	276	− 9	222 10 39.4	60 9.5	−55	0.991 3323	2457	6 55	16 31
6	304.5	2 59 15.983	277	− 9	223 10 48.9	60 11.4	−60	0.991 0866	2420	6 57	16 30
7	305.5	3 3 12.537	−278	− 7	224 11 0.3	60 13.2	−62	0.990 8446	2383	6 59	16 28
8	306.5	3 7 9.091	279	− 4	225 11 13.5	60 15.2	−61	0.990 6063	2346	7 1	16 27
9	307.5	3 11 5.646	280	0	226 11 28.7	60 17.2	−57	0.990 3717	2310	7 2	16 25
10	308.5	3 15 2.200	281	+ 3	227 11 45.9	60 19.1	−51	0.990 1407	2275	7 4	16 24
11	309.5	3 18 58.755	281	+ 6	228 12 5.0	60 21.1	−42	0.989 9132	2242	7 5	16 22
12	310.5	3 22 55.310	282	+ 6	229 12 26.1	60 23.0	−31	0.989 6890	2210	7 7	16 21
13	311.5	3 26 51.865	−282	+ 5	230 12 49.1	60 25.0	−18	0.989 4680	2181	7 8	16 20
14	312.5	3 30 48.420	283	+ 1	231 13 14.1	60 26.9	− 4	0.989 2499	2154	7 10	16 18
15	313.5	3 34 44.975	283	− 3	232 13 41.0	60 28.8	+10	0.989 0345	2130	7 12	16 17
16	314.5	3 38 41.530	283	− 7	233 14 9.8	60 30.6	+23	0.988 8215	2108	7 13	16 15
17	315.5	3 42 38.086	283	−11	234 14 40.4	60 32.3	+36	0.988 6107	2087	7 15	16 14
18	316.5	3 46 34.641	283	−12	235 15 12.7	60 33.9	+46	0.988 4020	2068	7 17	16 13
19	317.5	3 50 31.197	−283	−11	236 15 46.6	60 35.5	+54	0.988 1952	2049	7 18	16 12
20	318.5	3 54 27.752	283	− 6	237 16 22.1	60 36.8	+58	0.987 9903	2027	7 20	16 11
21	319.5	3 58 24.308	282	0	238 16 58.9	60 38.2	+59	0.987 7876	2005	7 21	16 10
22	320.5	4 2 20.864	282	+ 6	239 17 37.1	60 39.4	+57	0.987 5871	1979	7 23	16 9
23	321.5	4 6 17.420	281	+12	240 18 16.5	60 40.5	+53	0.987 3892	1950	7 24	16 8
24	322.5	4 10 13.976	−281	+15	241 18 57.0		+45	0.987 1942		7 26	16 7

Tag	Wochentag	0h Welt-Zeit: Zeitgleichung Wahre Zeit *minus* Mittlere Zeit		Scheinbare Rektaszension		Scheinbare Deklination		Halbe Durchgangs-Dauer St.-Zt.	Halbmesser
1941		m s	s	h m s	m s	° ′ ″	′ ″	s	′ ″
Nov. 24	Mo	+13 26.99	17.42	15 56 46.98	4 13.98	−20 25 44.9	12 10.6	69.50	16 13.98
25	Di	13 9.57	18.17	16 1 0.96	4 14.73	20 37 55.5	11 47.5	69.61	16 14.16
26	Mi	12 51.40	18.89	16 5 15.69	4 15.45	20 49 43.0	11 24.0	69.71	16 14.35
27	Do	12 32.51	19.61	16 9 31.14	4 16.16	21 1 7.0	11 0.5	69.81	16 14.53
28	Fr	12 12.90	20.30	16 13 47.30	4 16.86	21 12 7.5	10 36.4	69.91	16 14.71
29	Sa	11 52.60	20.98	16 18 4.16	4 17.54	21 22 43.9	10 12.0	70.00	16 14.88
30	St	+11 31.62	21.65	16 22 21.70	4 18.20	−21 32 55.9	9 47.4	70.10	16 15.04
Dez. 1	Mo	11 9.97	22.30	16 26 39.90	4 18.86	21 42 43.3	9 22.5	70.19	16 15.21
2	Di	10 47.67	22.93	16 30 58.76	4 19.48	21 52 5.8	8 57.3	70.28	16 15.37
3	Mi	10 24.74	23.54	16 35 18.24	4 20.10	22 1 3.1	8 31.9	70.36	16 15.52
4	Do	10 1.20	24.13	16 39 38.34	4 20.69	22 9 35.0	8 6.2	70.44	16 15.67
5	Fr	9 37.07	24.70	16 43 59.03	4 21.25	22 17 41.2	7 40.1	70.52	16 15.81
6	Sa	+ 9 12.37	25.25	16 48 20.28	4 21.81	−22 25 21.3	7 14.0	70.60	16 15.94
7	St	8 47.12	25.77	16 52 42.09	4 22.33	22 32 35.3	6 47.6	70.67	16 16.07
8	Mo	8 21.35	26.27	16 57 4.42	4 22.83	22 39 22.9	6 21.0	70.74	16 16.20
9	Di	7 55.08	26.75	17 1 27.25	4 23.30	22 45 43.9	5 54.1	70.81	16 16.32
10	Mi	7 28.33	27.20	17 5 50.55	4 23.76	22 51 38.0	5 27.1	70.87	16 16.43
11	Do	7 1.13	27.62	17 10 14.31	4 24.18	22 57 5.1	4 59.8	70.92	16 16.54
12	Fr	+ 6 33.51	28.02	17 14 38.49	4 24.57	−23 2 4.9	4 32.5	70.97	16 16.65
13	Sa	6 5.49	28.37	17 19 3.06	4 24.93	23 6 37.4	4 5.1	71.02	16 16.75
14	St	5 37.12	28.71	17 23 27.99	4 25.26	23 10 42.5	3 37.3	71.06	16 16.84
15	Mo	5 8.41	28.99	17 27 53.25	4 25.56	23 14 19.8	3 9.6	71.10	16 16.93
16	Di	4 39.42	29.26	17 32 18.81	4 25.81	23 17 29.4	2 41.7	71.14	16 17.01
17	Mi	4 10.16	29.48	17 36 44.62	4 26.03	23 20 11.1	2 13.7	71.17	16 17.10
18	Do	+ 3 40.68	29.65	17 41 10.65	4 26.21	−23 22 24.8	1 45.6	71.20	16 17.18
19	Fr	3 11.03	29.79	17 45 36.86	4 26.35	23 24 10.4	1 17.4	71.22	16 17.26
20	Sa	2 41.24	29.89	17 50 3.21	4 26.45	23 25 27.8	0 49.3	71.23	16 17.33
21	St	2 11.35	29.96	17 54 29.66	4 26.52	23 26 17.1	0 21.0	71.24	16 17.40
22	Mo	1 41.39	29.97	17 58 56.18	4 26.53	23 26 38.1	0 7.3	71.25	16 17.47
23	Di	1 11.42	29.97	18 3 22.71	4 26.52	23 26 30.8	0 35.5	71.26	16 17.53
24	Mi	+ 0 41.45	29.91	18 7 49.23	4 26.47	−23 25 55.3	1 3.8	71.26	16 17.59
25	Do	+ 0 11.54	29.83	18 12 15.70	4 26.39	23 24 51.5	1 32.0	71.25	16 17.64
26	Fr	− 0 18.29	29.71	18 16 42.09	4 26.27	23 23 19.5	2 0.3	71.24	16 17.69
27	Sa	0 48.00	29.57	18 21 8.36	4 26.12	23 21 19.2	2 28.4	71.22	16 17.74
28	St	1 17.57	29.39	18 25 34.48	4 25.95	23 18 50.8	2 56.4	71.20	16 17.78
29	Mo	1 46.96	29.17	18 30 0.43	4 25.73	23 15 54.4	3 24.5	71.17	16 17.81
30	Di	− 2 16.13	28.92	18 34 26.16	4 25.48	−23 12 29.9	3 52.3	71.15	16 17.84
31	Mi	2 45.05	28.66	18 38 51.64	4 25.21	23 8 37.6	4 20.2	71.11	16 17.86
32	Do	− 3 13.71		18 43 16.85		−23 4 17.4		71.07	16 17.87

Tag	Julian. Zeit	Sternzeit	Nutation in AR. langp. Gl.	Nutation in AR. kurzp. Gl.	Mittleres Äquinoktium 1941.0 Länge		Breite	R		Aufgang in +50° Breite 0h Länge	Untergang in +50° Breite 0h Länge
1941	2430	h m s	in 0.001 s		° ′ ″	′ ″	in 0.″01			h m	h m
Nov. 24	322.5	4 10 13.976	−281	+15	241 18 57.0	60 41.6	+45	0.987 1942	1917	7 26	16 7
25	323.5	4 14 10.532	280	+15	242 19 38.6	60 42.7	+35	0.987 0025	1879	7 27	16 6
26	324.5	4 18 7.088	279	+13	243 20 21.3	60 43.7	+24	0.986 8146	1838	7 29	16 5
27	325.5	4 22 3.644	278	+ 9	244 21 5.0	60 44.7	+12	0.986 6308	1795	7 30	16 4
28	326.5	4 26 0.201	277	+ 4	245 21 49.7	60 45.8	− 1	0.986 4513	1748	7 31	16 3
29	327.5	4 29 56.757	276	− 1	246 22 35.5	60 46.7	−12	0.986 2765	1698	7 33	16 3
30	328.5	4 33 53.313	−275	− 5	247 23 22.2	60 47.8	−22	0.986 1067	1647	7 34	16 2
Dez. 1	329.5	4 37 49.870	274	− 7	248 24 10.0	60 48.9	−31	0.985 9420	1594	7 36	16 2
2	330.5	4 41 46.426	273	− 9	249 24 58.9	60 49.9	−38	0.985 7826	1539	7 37	16 1
3	331.5	4 45 42.983	272	− 8	250 25 48.8	60 50.9	−43	0.985 6287	1483	7 38	16 1
4	332.5	4 49 39.540	270	− 6	251 26 39.7	60 52.1	−44	0.985 4804	1428	7 40	16 0
5	333.5	4 53 36.097	269	− 4	252 27 31.8	60 53.1	−43	0.985 3376	1371	7 41	16 0
6	334.5	4 57 32.653	−267	0	253 28 24.9	60 54.3	−40	0.985 2005	1315	7 43	15 59
7	335.5	5 1 29.210	266	+ 3	254 29 19.2	60 55.4	−34	0.985 0690	1258	7 44	15 59
8	336.5	5 5 25.767	264	+ 6	255 30 14.6	60 56.6	−25	0.984 9432	1204	7 45	15 59
9	337.5	5 9 22.324	262	+ 7	256 31 11.2	60 57.7	−15	0.984 8228	1151	7 46	15 59
10	338.5	5 13 18.881	261	+ 6	257 32 8.9	60 58.8	− 3	0.984 7077	1099	7 47	15 58
11	339.5	5 17 15.438	259	+ 3	258 33 7.7	61 0.0	+10	0.984 5978	1049	7 48	15 58
12	340.5	5 21 11.996	−257	− 1	259 34 7.7	61 1.1	+24	0.984 4929	1003	7 49	15 58
13	341.5	5 25 8.553	255	− 6	260 35 8.8	61 2.2	+38	0.984 3926	959	7 50	15 58
14	342.5	5 29 5.110	254	−10	261 36 11.0	61 3.2	+50	0.984 2967	919	7 51	15 58
15	343.5	5 33 1.667	252	−13	262 37 14.2	61 4.2	+61	0.984 2048	880	7 51	15 59
16	344.5	5 36 58.225	250	−13	263 38 18.4	61 5.0	+68	0.984 1168	845	7 52	15 59
17	345.5	5 40 54.782	248	−10	264 39 23.4	61 5.8	+72	0.984 0323	810	7 53	15 59
18	346.5	5 44 51.339	−246	− 4	265 40 29.2	61 6.4	+74	0.983 9513	778	7 54	15 59
19	347.5	5 48 47.897	244	+ 2	266 41 35.6	61 6.9	+73	0.983 8735	743	7 54	16 0
20	348.5	5 52 44.454	242	+ 9	267 42 42.5	61 7.3	+69	0.983 7992	708	7 55	16 0
21	349.5	5 56 41.011	240	+13	268 43 49.8	61 7.7	+61	0.983 7284	670	7 55	16 1
22	350.5	6 0 37.569	238	+15	269 44 57.5	61 7.8	+50	0.983 6614	631	7 56	16 1
23	351.5	6 4 34.126	236	+14	270 46 5.3	61 8.0	+40	0.983 5983	587	7 56	16 2
24	352.5	6 8 30.683	−234	+10	271 47 13.3	61 8.1	+27	0.983 5396	541	7 57	16 2
25	353.5	6 12 27.241	232	+ 6	272 48 21.4	61 8.1	+14	0.983 4855	491	7 57	16 3
26	354.5	6 16 23.798	230	+ 1	273 49 29.5	61 8.1	+ 3	0.983 4364	438	7 58	16 3
27	355.5	6 20 20.355	228	− 4	274 50 37.6	61 8.2	− 8	0.983 3926	383	7 58	16 4
28	356.5	6 24 16.913	226	− 7	275 51 45.8	61 8.1	−17	0.983 3543	327	7 58	16 5
29	357.5	6 28 13.470	224	− 8	276 52 53.9	61 8.1	−24	0.983 3216	268	7 58	16 6
30	358.5	6 32 10.027	−222	− 8	277 54 2.0	61 8.1	−30	0.983 2948	207	7 59	16 6
31	359.5	6 36 6.584	220	− 6	278 55 10.1	61 8.1	−32	0.983 2741	146	7 59	16 7
32	360.5	6 40 3.142	−218	− 4	279 56 18.2		−31	0.983 2595		7 59	16 8

0h Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Jan. 0	+0.156 915	+17 246	− 50	+1	−0.890 564	+ 2 715	+278	−2	−0.386 245	+1 177	+120	−4
1	0.174 161	17 190	56	−2	0.887 849	2 993	278	+3	0.385 068	1 298	121	+1
2	0.191 351	17 130	60	+1	0.884 856	3 269	276	+2	0.383 770	1 417	119	−4
3	0.208 481	17 063	67	−4	0.881 587	3 544	275	0	0.382 353	1 536	119	−1
4	0.225 544	16 991	72	−3	0.878 043	3 817	273	−3	0.380 817	1 655	119	+2
5	0.242 535	16 915	76	+1	0.874 226	4 089	272	0	0.379 162	1 773	118	+2
6	+0.259 450	+16 832	− 83	−4	−0.870 137	+ 4 359	+270	0	−0.377 389	+1 890	+117	−1
7	0.276 282	16 745	87	−1	0.865 778	4 628	269	+3	0.375 499	2 007	117	+1
8	0.293 027	16 653	92	0	0.861 150	4 896	268	+4	0.373 492	2 122	115	−1
9	0.309 680	16 555	98	−2	0.856 254	5 160	264	−4	0.371 370	2 238	116	+5
10	0.326 235	16 454	101	+4	0.851 094	5 424	264	−1	0.369 132	2 352	114	+3
11	0.342 689	16 347	107	−1	0.845 670	5 685	261	−2	0.366 780	2 466	114	+5
12	+0.359 036	+16 235	−112	−5	−0.839 985	+ 5 946	+261	+2	−0.364 314	+2 579	+113	+2
13	0.375 271	16 118	117	−4	0.834 039	6 203	257	−5	0.361 735	2 690	111	−2
14	0.391 389	15 998	120	+3	0.827 836	6 459	256	−4	0.359 045	2 802	112	+5
15	0.407 387	15 873	125	+1	0.821 377	6 713	254	−3	0.356 243	2 913	111	+4
16	0.423 260	15 742	131	−5	0.814 664	6 966	253	0	0.353 330	3 021	108	−4
17	0.439 002	15 607	135	−2	0.807 698	7 216	250	−2	0.350 309	3 131	110	+3
18	+0.454 609	+15 468	−139	+4	−0.800 482	+ 7 465	+249	+2	−0.347 178	+3 238	+107	−2
19	0.470 077	15 324	144	+5	0.793 017	7 711	246	−1	0.343 940	3 345	107	+1
20	0.485 401	15 175	149	+3	0.785 306	7 956	245	+4	0.340 595	3 452	107	+4
21	0.500 576	15 021	154	−2	0.777 350	8 199	243	+5	0.337 143	3 556	104	−3
22	0.515 597	14 861	160	−5	0.769 151	8 438	239	−2	0.333 587	3 660	104	−1
23	0.530 458	14 698	163	+1	0.760 713	8 676	238	+3	0.329 927	3 763	103	+1
24	+0.545 156	+14 529	−169	−3	−0.752 037	+ 8 911	+235	+2	−0.326 164	+3 865	+102	+2
25	0.559 685	14 355	174	−2	0.743 126	9 143	232	−2	0.322 299	3 965	100	−1
26	0.574 040	14 177	178	+2	0.733 983	9 372	229	−4	0.318 334	4 065	100	+3
27	0.588 217	13 994	183	0	0.724 611	9 597	225	−5	0.314 269	4 162	97	−2
28	0.602 211	13 806	188	−1	0.715 014	9 820	223	+1	0.310 107	4 259	97	+1
29	0.616 017	13 614	192	+1	0.705 194	10 040	220	+4	0.305 848	4 353	94	−3
30	+0.629 631	+13 418	−196	+3	−0.695 154	+10 255	+215	−2	−0.301 495	+4 447	+ 94	+3
31	0.643 049	13 217	201	+2	0.684 899	10 467	212	−3	0.297 048	4 540	93	+4
Febr. 1	0.656 266	13 013	204	+5	0.674 432	10 675	208	−2	0.292 508	4 629	89	−4
2	0.669 279	12 805	208	+5	0.663 757	10 881	206	+2	0.287 879	4 718	89	0
3	0.682 084	12 593	212	+1	0.652 876	11 081	200	−4	0.283 161	4 806	88	+4
4	0.694 677	12 377	216	−2	0.641 795	11 279	198	0	0.278 355	4 891	85	−2
5	+0.707 054	+12 158	−219	0	−0.630 516	+11 472	+193	−5	−0.273 464	+4 975	+ 84	+1
6	0.719 212	11 935	223	−2	0.619 044	11 662	190	−4	0.268 489	5 058	83	+3
7	0.731 147	11 710	225	0	0.607 382	11 847	185	−4	0.263 431	5 138	80	−1
8	0.742 857	11 480	230	−5	0.595 535	12 030	183	+3	0.258 293	5 218	80	+3
9	0.754 337	+11 248	232	−1	0.583 505	+12 208	178	0	0.253 075	+5 295	77	−2
10	+0.765 585		−234	+2	−0.571 297		+174	−2	−0.247 780		+ 76	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Febr. 10	+0.765 585	+11 014	−234	+2	−0.571 297	+12 382	+174	−2	−0.247 780	+5 371	+76	−1
11	0.776 599	10 775	239	−4	0.558 915	12 553	171	+2	0.242 409	5 445	74	−4
12	0.787 374	10 535	240	0	0.546 362	12 720	167	+2	0.236 964	5 517	72	−5
13	0.797 909	10 291	244	−1	0.533 642	12 884	164	+1	0.231 447	5 588	71	−1
14	0.808 200	10 045	246	0	0.520 758	13 043	159	−4	0.225 859	5 658	70	+3
15	0.818 245	9 795	250	−2	0.507 715	13 199	156	−2	0.220 201	5 725	67	0
16	+0.828 040	+ 9 543	−252	+1	−0.494 516	+13 351	+152	−2	−0.214 476	+5 792	+67	+2
17	0.837 583	9 288	255	0	0.481 165	13 500	149	+3	0.208 684	5 855	63	−3
18	0.846 871	9 029	259	−5	0.467 665	13 645	145	+4	0.202 829	5 919	64	+4
19	0.855 900	8 768	261	−2	0.454 020	13 785	140	0	0.196 910	5 979	60	−3
20	0.864 668	8 504	264	−2	0.440 235	13 921	136	0	0.190 931	6 038	59	−3
21	0.873 172	8 236	268	−4	0.426 314	14 053	132	+3	0.184 893	6 095	57	−3
22	+0.881 408	+ 7 967	−269	+3	−0.412 261	+14 181	+128	+5	−0.178 798	+6 150	+55	−4
23	0.889 375	7 695	272	+5	0.398 080	14 304	123	+3	0.172 648	6 203	53	−1
24	0.897 070	7 420	275	+3	0.383 776	14 422	118	−1	0.166 445	6 255	52	+2
25	0.904 490	7 143	277	+4	0.369 354	14 536	114	−1	0.160 190	6 303	48	−3
26	0.911 633	6 864	279	+3	0.354 818	14 644	108	−5	0.153 887	6 351	48	+4
27	0.918 497	6 583	281	+1	0.340 174	14 748	104	−2	0.147 536	6 396	45	+2
28	+0.925 080	+ 6 299	−284	−3	−0.325 426	+14 847	+ 99	−1	−0.141 140	+6 439	+43	−1
März 1	0.931 379	6 015	284	+4	0.310 579	14 942	95	+1	0.134 701	6 479	40	−4
2	0.937 394	5 729	286	+4	0.295 637	15 030	88	−5	0.128 222	6 519	40	+2
3	0.943 123	5 442	287	+2	0.280 607	15 115	85	−1	0.121 703	6 555	36	−4
4	0.948 565	5 152	290	−4	0.265 492	15 194	79	−1	0.115 148	6 589	34	−3
5	0.953 717	4 863	289	+1	0.250 298	15 270	76	+4	0.108 559	6 622	33	+3
6	+0.958 580	+ 4 572	−291	−2	−0.235 028	+15 338	+ 68	−4	−0.101 937	+6 653	+31	+4
7	0.963 152	4 280	292	−5	0.219 690	15 404	66	+4	0.095 284	6 681	28	−1
8	0.967 432	3 987	293	−4	0.204 286	15 465	61	+5	0.088 603	6 707	26	−2
9	0.971 419	3 695	292	+2	0.188 821	15 520	55	−3	0.081 896	6 731	24	+1
10	0.975 114	3 401	294	−2	0.173 301	15 570	50	−5	0.075 165	6 754	23	+5
11	0.978 515	3 107	294	0	0.157 731	15 617	47	+2	0.068 411	6 774	20	+2
12	+0.981 622	+ 2 813	−294	0	−0.142 114	+15 660	+ 43	+3	−0.061 637	+6 792	+18	+1
13	0.984 435	2 518	295	−2	0.126 454	15 697	37	−5	0.054 845	6 809	17	+4
14	0.986 953	2 222	296	−2	0.110 757	15 730	33	−4	0.048 036	6 823	14	+1
15	0.989 175	1 927	295	+3	0.095 027	15 759	29	−2	0.041 213	6 836	13	+2
16	0.991 102	1 631	296	+3	0.079 268	15 784	25	+2	0.034 377	6 846	10	+1
17	0.992 733	1 334	297	0	0.063 484	15 805	21	+3	0.027 531	6 855	9	+4
18	+0.994 067	+ 1 037	−297	−1	−0.047 679	+15 820	+ 15	−5	−0.020 676	+6 862	+ 7	+4
19	0.995 104	739	298	−4	0.031 859	15 831	11	−4	0.013 814	6 866	4	+1
20	0.995 843	440	299	−5	0.016 028	15 837	6	−2	0.006 948	6 869	3	+5
21	0.996 283	+ 142	298	+2	−0.000 191	15 840	+ 3	+4	−0.000 079	6 870	+ 1	+4
22	0.996 425	− 156	298	+4	+0.015 649	+15 836	− 4	−3	+0.006 791	+6 868	− 2	0
23	+0.996 269		−299	+3	+0.031 485		− 9	−3	+0.013 659		− 4	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
März 23	+0.996 269	− 455	−299	+3	+0.031 485	+15 827	− 9	−3	+0.013 659	+6 864	− 4	−1
24	0.995 814	753	298	+4	0.047 312	15 815	12	+5	0.020 523	6 859	5	+2
25	0.995 061	1 051	298	+1	0.063 127	15 797	18	+3	0.027 382	6 850	9	−4
26	0.994 010	1 349	298	−3	0.078 924	15 773	24	−1	0.034 232	6 841	9	+2
27	0.992 661	1 646	297	−2	0.094 697	15 746	27	+4	0.041 073	6 828	13	−4
28	0.991 015	1 942	296	0	0.110 443	15 712	34	−3	0.047 901	6 814	14	−3
29	+0.989 073	− 2 238	−296	−2	+0.126 155	+15 674	− 38	−1	+0.054 715	+6 797	−17	−3
30	0.986 835	2 531	293	+3	0.141 829	15 632	42	+2	0.061 512	6 779	18	+3
31	0.984 304	2 825	294	−3	0.157 461	15 584	48	−3	0.068 291	6 759	20	+3
April 1	0.981 479	3 116	291	−1	0.173 045	15 531	53	−5	0.075 050	6 736	23	−3
2	0.978 363	3 407	291	−5	0.188 576	15 474	57	−1	0.081 786	6 711	25	−5
3	0.974 956	3 696	289	−4	0.204 050	15 412	62	0	0.088 497	6 684	27	−4
4	+0.971 260	− 3 983	−287	+2	+0.219 462	+15 346	− 66	+5	+0.095 181	+6 656	−28	+1
5	0.967 277	4 268	285	+5	0.234 808	15 276	70	+4	0.101 837	6 625	31	−1
6	0.963 009	4 551	283	+5	0.250 084	15 199	77	−4	0.108 462	6 593	32	+2
7	0.958 458	4 833	282	0	0.265 283	15 121	78	+4	0.115 055	6 559	34	+1
8	0.953 625	5 113	280	0	0.280 404	15 037	84	−1	0.121 614	6 522	37	−4
9	0.948 512	5 390	277	+4	0.295 441	14 949	88	−2	0.128 136	6 484	38	−1
10	+0.943 122	− 5 665	−275	+2	+0.310 390	+14 858	− 91	+2	+0.134 620	+6 445	−39	+3
11	0.937 457	5 940	275	−4	0.325 248	14 763	95	0	0.141 065	6 403	42	+2
12	0.931 517	6 211	271	+2	0.340 011	14 663	100	−5	0.147 468	6 361	42	+5
13	0.925 306	6 481	270	0	0.354 674	14 560	103	−2	0.153 829	6 315	46	−2
14	0.918 825	6 750	269	−3	0.369 234	14 454	106	+3	0.160 144	6 269	46	+3
15	0.912 075	7 016	266	+3	0.383 688	14 343	111	0	0.166 413	6 221	48	+4
16	+0.905 059	− 7 281	−265	+1	+0.398 031	+14 228	−115	−2	+0.172 634	+6 171	−50	+3
17	0.897 778	7 543	262	+3	0.412 259	14 109	119	−2	0.178 805	6 119	52	+3
18	0.890 235	7 804	261	0	0.426 368	13 986	123	−1	0.184 924	6 066	53	+5
19	0.882 431	8 063	259	−1	0.440 354	13 859	127	0	0.190 990	6 010	56	+1
20	0.874 368	8 319	256	+3	0.454 213	13 727	132	−1	0.197 000	5 954	56	+4
21	0.866 049	8 572	253	+5	0.467 940	13 592	135	+3	0.202 954	5 894	60	−4
22	+0.857 477	− 8 824	−252	0	+0.481 532	+13 452	−140	0	+0.208 848	+5 834	−60	−1
23	0.848 653	9 072	248	+4	0.494 984	13 308	144	+2	0.214 682	5 771	63	−5
24	0.839 581	9 317	245	+2	0.508 292	13 161	147	+3	0.220 453	5 707	64	−2
25	0.830 264	9 560	243	−4	0.521 453	13 008	153	−4	0.226 160	5 641	66	−3
26	0.820 704	9 800	240	−5	0.534 461	12 852	156	−2	0.231 801	5 574	67	0
27	0.810 904	10 036	236	−1	0.547 313	12 693	159	+4	0.237 375	5 504	70	−3
28	+0.800 868	−10 269	−233	−2	+0.560 006	+12 530	−163	+4	+0.242 879	+5 434	−70	+4
29	0.790 599	10 499	230	−1	0.572 536	12 362	168	−2	0.248 313	5 362	72	+2
30	0.780 100	10 724	225	+3	0.584 898	12 192	170	+3	0.253 675	5 287	75	−4
Mai 1	0.769 376	10 947	223	−3	0.597 090	12 018	174	+2	0.258 962	5 213	74	+3
2	0.758 429	−11 167	220	−4	0.609 108	+11 840	178	−2	0.264 175	+5 135	78	−4
3	+0.747 262		−214	+5	+0.620 948		−180	+1	+0.269 310		−78	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit		Mittleres Äquinoktium 1941.0												
		X	I	II	ΔX*)	Y	I	II	ΔY*)	Z	I	II	ΔZ*)
1941 Mai	3	+0.747 262	−11 381	−214	+5	+0.620 948	+11 660	−180	+1	+0.269 310	+5 057	− 78	0
	4	0.735 881	11 592	211	+4	0.632 608	11 475	185	−3	0.274 367	4 978	79	+3
	5	0.724 289	11 800	208	−1	0.644 083	11 289	186	+4	0.279 345	4 897	81	0
	6	0.712 489	12 004	204	+1	0.655 372	11 100	189	+4	0.284 242	4 815	82	−2
	7	0.700 485	12 203	199	+5	0.666 472	10 907	193	0	0.289 057	4 731	84	−5
	8	0.688 282	12 400	197	−1	0.677 379	10 713	194	+2	0.293 788	4 647	84	−1
	9	+0.675 882	−12 592	−192	+1	+0.688 092	+10 515	−198	−4	+0.298 435	+4 561	− 86	−4
	10	0.663 290	12 781	189	−3	0.698 607	10 315	200	−1	0.302 996	4 474	87	−2
	11	0.650 509	12 967	186	−5	0.708 922	10 113	202	+3	0.307 470	4 387	87	+3
	12	0.637 542	13 149	182	−4	0.719 035	9 909	204	+3	0.311 857	4 298	89	−1
	13	0.624 393	13 328	179	−2	0.728 944	9 701	208	−3	0.316 155	4 207	91	−4
	14	0.611 065	13 502	174	+2	0.738 645	9 491	210	−3	0.320 362	4 116	91	0
	15	+0.597 563	−13 675	−173	−4	+0.748 136	+ 9 278	−213	−1	+0.324 478	+4 024	− 92	+4
	16	0.583 888	13 842	167	+3	0.757 414	9 063	215	+2	0.328 502	3 931	93	+3
	17	0.570 046	14 006	164	+2	0.766 477	8 845	218	+4	0.332 433	3 835	96	−3
	18	0.556 040	14 167	161	−2	0.775 322	8 625	220	+5	0.336 268	3 740	95	+3
	19	0.541 873	14 323	156	+1	0.783 947	8 401	224	−2	0.340 008	3 643	97	+3
	20	0.527 550	14 475	152	+3	0.792 348	8 175	226	−3	0.343 651	3 545	98	+2
	21	+0.513 075	−14 622	−147	+4	+0.800 523	+ 7 946	−229	−4	+0.347 196	+3 446	− 99	0
	22	0.498 453	14 767	145	−4	0.808 469	7 716	230	+3	0.350 642	3 345	101	−2
	23	0.483 686	14 905	138	+2	0.816 185	7 482	234	−1	0.353 987	3 245	100	+5
	24	0.468 781	15 040	135	−2	0.823 667	7 247	235	+4	0.357 232	3 143	102	+2
	25	0.453 741	15 171	131	−4	0.830 914	7 010	237	+3	0.360 375	3 039	104	−3
	26	0.438 570	15 295	124	+4	0.837 924	6 769	241	−3	0.363 414	2 936	103	+4
	27	+0.423 275	−15 417	−122	−3	+0.844 693	+ 6 528	−241	+4	+0.366 350	+2 831	−105	+3
	28	0.407 858	15 532	115	+3	0.851 221	6 285	243	+5	0.369 181	2 726	105	+5
	29	0.392 326	15 644	112	−4	0.857 506	6 040	245	+4	0.371 907	2 620	106	+4
	30	0.376 682	15 750	106	−1	0.863 546	5 793	247	+1	0.374 527	2 513	107	+1
	31	0.360 932	15 852	102	−4	0.869 339	5 545	248	+3	0.377 040	2 405	108	+1
Juni	1	0.345 080	15 949	97	−1	0.874 884	5 296	249	+4	0.379 445	2 298	107	+4
	2	+0.329 131	−16 040	− 91	+3	+0.880 180	+ 5 046	−250	+2	+0.381 743	+2 189	−109	−1
	3	0.313 091	16 127	87	0	0.885 226	4 794	252	−1	0.383 932	2 080	109	−2
	4	0.296 964	16 210	83	−4	0.890 020	4 542	252	0	0.386 012	1 970	110	−3
	5	0.280 754	16 288	78	−2	0.894 562	4 289	253	−3	0.387 982	1 861	109	+3
	6	0.264 466	16 361	73	+2	0.898 851	4 035	254	−5	0.389 843	1 751	110	+1
	7	0.248 105	16 429	68	+3	0.902 886	3 780	255	−5	0.391 594	1 640	111	−4
	8	+0.231 676	−16 494	− 65	−2	+0.906 666	+ 3 526	−254	+2	+0.393 234	+1 529	−111	−2
	9	0.215 182	16 555	61	−4	0.910 192	3 270	256	−3	0.394 763	1 419	110	+3
	10	0.198 627	16 610	55	+3	0.913 462	3 013	257	−4	0.396 182	1 306	113	−4
	11	0.182 017	16 662	52	−2	0.916 475	2 756	257	−1	0.397 488	1 195	111	+4
	12	0.165 355	−16 710	48	−2	0.919 231	+ 2 498	258	−1	0.398 683	+1 083	112	+5
	13	+0.148 645		− 42	+2	+0.921 729		−260	−3	+0.399 766		−112	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Juni 13	+0.148 645	−16 752	− 42	+2	+0.921 729	+2 238	−260	−3	+0.399 766	+ 971	−112	+4
14	0.131 893	16 791	39	−3	0.923 967	1 979	259	+4	0.400 737	858	113	−2
15	0.115 102	16 825	34	−4	0.925 946	1 718	261	+3	0.401 595	744	114	−5
16	0.098 277	16 855	30	−4	0.927 664	1 457	261	+3	0.402 339	631	113	−1
17	0.081 422	16 879	24	+2	0.929 121	1 194	263	0	0.402 970	517	114	0
18	0.064 543	16 898	19	+3	0.930 315	932	262	+3	0.403 487	404	113	+3
19	+0.047 645	−16 913	− 15	−2	+0.931 247	+ 669	−263	−1	+0.403 891	+ 289	−115	−2
20	0.030 732	16 923	10	−3	0.931 916	405	264	−4	0.404 180	175	114	+2
21	+0.013 809	16 928	− 5	−4	0.932 321	+ 141	264	−2	0.404 355	+ 61	114	+5
22	−0.003 119	16 928	0	−4	0.932 462	− 123	264	0	0.404 416	− 53	114	+4
23	0.020 047	16 923	+ 5	−4	0.932 339	387	264	+3	0.404 363	168	115	−2
24	0.036 970	16 913	10	−1	0.931 952	650	263	+5	0.404 195	282	114	−1
25	−0.053 883	−16 897	+ 16	+4	+0.931 302	− 915	−265	−2	+0.403 913	− 397	−115	−3
26	0.070 780	16 877	20	+1	0.930 387	1 178	263	+1	0.403 516	510	113	+2
27	0.087 657	16 851	26	+2	0.929 209	1 441	263	0	0.403 006	625	115	−4
28	0.104 508	16 821	30	−1	0.927 768	1 703	262	0	0.402 381	738	113	+2
29	0.121 329	16 785	36	+1	0.926 065	1 965	262	−4	0.401 643	852	114	−1
30	0.138 114	16 745	40	0	0.924 100	2 226	261	−5	0.400 791	965	113	+2
Juli 1	−0.154 859	−16 699	+ 46	+2	+0.921 874	−2 486	−260	−3	+0.399 826	−1 077	−112	+5
2	0.171 558	16 649	50	−3	0.919 388	2 744	258	+3	0.398 749	1 189	112	+3
3	0.188 207	16 595	54	−5	0.916 644	3 001	257	+1	0.397 560	1 301	112	−2
4	0.204 802	16 536	59	−3	0.913 643	3 258	257	−5	0.396 259	1 413	112	−4
5	0.221 338	16 472	64	0	0.910 385	3 513	255	−3	0.394 846	1 523	110	0
6	0.237 810	16 405	67	−1	0.906 872	3 767	254	−2	0.393 323	1 634	111	−3
7	−0.254 215	−16 332	+ 73	+4	+0.903 105	−4 019	−252	+3	+0.391 689	−1 743	−109	+3
8	0.270 547	16 257	75	0	0.899 086	4 271	252	0	0.389 946	1 852	109	+1
9	0.286 804	16 176	81	+4	0.894 815	4 521	250	+3	0.388 094	1 962	110	−4
10	0.302 980	16 092	84	+2	0.890 294	4 770	249	+3	0.386 132	2 069	107	+4
11	0.319 072	16 003	89	+4	0.885 524	5 019	249	−1	0.384 063	2 177	108	0
12	0.335 075	15 910	93	+2	0.880 505	5 266	247	+3	0.381 886	2 285	108	−2
13	−0.350 985	−15 813	+ 97	+1	+0.875 239	−5 512	−246	+4	+0.379 601	−2 391	−106	+2
14	0.366 798	15 711	102	+1	0.869 727	5 757	245	+4	0.377 210	2 498	107	−1
15	0.382 509	15 605	106	−1	0.863 970	6 000	243	+5	0.374 712	2 603	105	+3
16	0.398 114	15 494	111	+2	0.857 970	6 243	243	−1	0.372 109	2 708	105	+2
17	0.413 608	15 379	115	+3	0.851 727	6 484	241	0	0.369 401	2 813	105	−1
18	0.428 987	15 258	121	+5	0.845 243	6 723	239	+4	0.366 588	2 916	103	+3
19	−0.444 245	−15 135	+123	−3	+0.838 520	−6 960	−237	+5	+0.363 672	−3 019	−103	+2
20	0.459 380	15 005	130	+3	0.831 560	7 196	236	−1	0.360 653	3 121	102	0
21	0.474 385	14 872	133	−2	0.824 364	7 431	235	−3	0.357 532	3 223	102	−2
22	0.489 257	14 734	138	−2	0.816 933	7 662	231	+5	0.354 309	3 323	100	+3
23	0.503 991	−14 591	143	0	0.809 271	−7 892	230	+3	0.350 986	−3 422	99	+3
24	−0.518 582		+147	−3	+0.801 379		−227	+2	+0.347 564		−99	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit		Mittleres Äquinoktium 1941.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941													
Juli	24	−0.518 582	−14 444	+147	−3	+0.801 379	− 8 119	−227	+2	+0.347 564	−3 521	−99	−3
	25	0.533 026	14 293	151	−5	0.793 260	8 345	226	−4	0.344 043	3 619	98	−4
	26	0.547 319	14 137	156	−1	0.784 915	8 568	223	0	0.340 424	3 715	96	0
	27	0.561 456	13 976	161	+2	0.776 347	8 787	219	+5	0.336 709	3 811	96	−3
	28	0.575 432	13 812	164	−3	0.767 560	9 005	218	+1	0.332 898	3 904	93	+3
	29	0.589 244	13 644	168	−4	0.758 555	9 218	213	+4	0.328 994	3 998	94	−4
	30	−0.602 888	−13 472	+172	−2	+0.749 337	− 9 431	−213	−3	+0.324 996	−4 089	−91	0
	31	0.616 360	13 296	176	+1	0.739 906	9 638	207	+4	0.320 907	4 181	92	−4
Aug.	1	0.629 656	13 116	180	+3	0.730 268	9 844	206	−3	0.316 726	4 269	88	+5
	2	0.642 772	12 934	182	−1	0.720 424	10 047	203	−4	0.312 457	4 357	88	+4
	3	0.655 706	12 747	187	+4	0.710 377	10 247	200	−1	0.308 100	4 444	87	+2
	4	0.668 453	12 558	189	+2	0.700 130	10 443	196	+5	0.303 656	4 529	85	+4
	5	−0.681 011	−12 365	+193	+5	+0.689 687	−10 637	−194	+4	+0.299 127	−4 614	−85	−1
	6	0.693 376	12 169	196	+2	0.679 050	10 828	191	+4	0.294 513	4 697	83	+2
	7	0.705 545	11 970	199	0	0.668 222	11 016	188	+3	0.289 816	4 778	81	+4
	8	0.717 515	11 768	202	0	0.657 206	11 202	186	−1	0.285 038	4 859	81	−1
	9	0.729 283	11 562	206	+2	0.646 004	11 385	183	−2	0.280 179	4 939	80	−2
	10	0.740 845	11 353	209	+1	0.634 619	11 565	180	−3	0.275 240	5 016	77	+3
	11	−0.752 198	−11 141	+212	−2	+0.623 054	−11 743	−178	−3	+0.270 224	−5 094	−78	−4
	12	0.763 339	10 925	216	−1	0.611 311	11 916	173	+3	0.265 130	5 169	75	+1
	13	0.774 264	10 706	219	−3	0.599 395	12 088	172	−4	0.259 961	5 243	74	0
	14	0.784 970	10 484	222	−4	0.587 307	12 256	168	−5	0.254 718	5 316	73	−2
	15	0.795 454	10 258	226	−2	0.575 051	12 422	166	−5	0.249 402	5 388	72	−2
	16	0.805 712	10 029	229	−3	0.562 629	12 582	160	+4	0.244 014	5 457	69	+3
	17	−0.815 741	− 9 797	+232	−4	+0.550 047	−12 741	−159	−2	+0.238 557	−5 526	−69	+1
	18	0.825 538	9 562	235	−2	0.537 306	12 896	155	−1	0.233 031	5 593	67	+2
	19	0.835 100	9 322	240	+4	0.524 410	13 047	151	+2	0.227 438	5 658	65	+3
	20	0.844 422	9 081	241	−2	0.511 363	13 194	147	+4	0.221 780	5 722	64	0
	21	0.853 503	8 836	245	−1	0.498 169	13 338	144	−1	0.216 058	5 784	62	−1
	22	0.862 339	8 588	248	0	0.484 831	13 478	140	0	0.210 274	5 845	61	−3
	23	−0.870 927	− 8 337	+251	−1	+0.471 353	−13 613	−135	+2	+0.204 429	−5 904	−59	−1
	24	0.879 264	8 084	253	−4	0.457 740	13 745	132	−2	0.198 525	5 960	56	+2
	25	0.887 348	7 828	256	−1	0.443 995	13 872	127	0	0.192 565	6 016	56	−3
	26	0.895 176	7 569	259	+2	0.430 123	13 995	123	−2	0.186 549	6 069	53	−2
	27	0.902 745	7 308	261	0	0.416 128	14 114	119	−2	0.180 480	6 121	52	−3
	28	0.910 053	7 046	262	−5	0.402 014	14 228	114	+1	0.174 359	6 170	49	0
	29	−0.917 099	− 6 782	+264	−5	+0.387 786	−14 338	−110	+3	+0.168 189	−6 218	−48	−3
	30	0.923 881	6 515	267	−1	0.373 448	14 443	105	+5	0.161 971	6 265	47	−5
	31	0.930 396	6 248	267	−4	0.359 005	14 545	102	−2	0.155 706	6 308	43	+1
Sept.	1	0.936 644	5 978	270	+1	0.344 460	14 643	98	−4	0.149 398	6 351	43	−4
	2	0.942 622	− 5 707	271	+1	0.329 817	−14 737	94	−3	0.143 047	−6 392	41	−4
	3	−0.948 329		+273	+2	+0.315 080		− 89	+2	+0.136 655		−39	−3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Sept. 3	−0.948 329	−5 434	+273	+2	+0.315 080	−14 826	−89	+2	+0.136 655	−6 431	−39	−3
4	0.953 763	5 161	273	−2	0.300 254	14 911	85	+3	0.130 224	6 468	37	0
5	0.958 924	4 885	276	+3	0.285 343	14 994	83	−4	0.123 756	6 504	36	0
6	0.963 809	4 608	277	+5	0.270 349	15 071	77	+2	0.117 252	6 537	33	+5
7	0.968 417	4 329	279	+5	0.255 278	15 145	74	0	0.110 715	6 569	32	+3
8	0.972 746	4 049	280	0	0.240 133	15 215	70	+1	0.104 146	6 600	31	0
9	−0.976 795	−3 768	+281	−3	+0.224 918	−15 281	−66	+2	+0.097 546	−6 627	−27	+4
10	0.980 563	3 485	283	+1	0.209 637	15 342	61	+5	0.090 919	6 655	28	−4
11	0.984 048	3 200	285	+5	0.194 295	15 399	57	+4	0.084 264	6 679	24	0
12	0.987 248	2 914	286	+4	0.178 896	15 453	54	−3	0.077 585	6 702	23	−3
13	0.990 162	2 627	287	+3	0.163 443	15 502	49	−2	0.070 883	6 724	22	−5
14	0.992 789	2 338	289	+4	0.147 941	15 546	44	+2	0.064 159	6 742	18	+2
15	−0.995 127	−2 049	+289	0	+0.132 395	−15 586	−40	+3	+0.057 417	−6 760	−18	−1
16	0.997 176	1 757	292	+4	0.116 809	15 621	35	+2	0.050 657	6 775	15	+4
17	0.998 933	1 466	291	−3	0.101 188	15 653	32	−3	0.043 882	6 788	13	+5
18	1.000 399	1 173	293	+1	0.085 535	15 678	25	+4	0.037 094	6 799	11	+3
19	1.001 572	879	294	+4	0.069 857	15 700	22	0	0.030 295	6 808	9	+1
20	1.002 451	584	295	+5	0.054 157	15 716	16	+2	0.023 487	6 816	8	−4
21	−1.003 035	− 289	+295	+3	+0.038 441	−15 727	−11	0	+0.016 671	−6 820	− 4	+1
22	1.003 324	+ 7	296	+3	0.022 714	15 734	7	−4	0.009 851	6 823	3	−3
23	1.003 317	302	295	−4	+0.006 980	15 735	− 1	−2	+0.003 028	6 824	− 1	−5
24	1.003 015	597	295	−4	−0.008 755	15 732	+ 3	−4	−0.003 796	6 823	+ 1	−4
25	1.002 418	893	296	+1	0.024 487	15 723	9	0	0.010 619	6 819	4	+1
26	1.001 525	1 187	294	0	0.040 210	15 709	14	+1	0.017 438	6 813	6	+2
27	−1.000 338	+1 482	+295	+5	−0.055 919	−15 692	+17	−4	−0.024 251	−6 806	+ 7	0
28	0.998 856	1 776	294	+4	0.071 611	15 669	23	+2	0.031 057	6 796	10	+4
29	0.997 080	2 069	293	+1	0.087 280	15 641	28	+5	0.037 853	6 784	12	+4
30	0.995 011	2 361	292	−2	0.102 921	15 610	31	+2	0.044 637	6 770	14	+3
Okt. 1	0.992 650	2 652	291	−3	0.118 531	15 574	36	+3	0.051 407	6 756	14	−4
2	0.989 998	2 944	292	+4	0.134 105	15 533	41	+4	0.058 163	6 737	19	+4
3	−0.987 054	+3 234	+290	−1	−0.149 638	−15 489	+44	0	−0.064 900	−6 719	+18	−2
4	0.983 820	3 523	289	−2	0.165 127	15 440	49	+3	0.071 619	6 697	22	+5
5	0.980 297	3 812	289	0	0.180 567	15 386	54	+5	0.078 316	6 674	23	+3
6	0.976 485	4 100	288	−1	0.195 953	15 329	57	−1	0.084 990	6 649	25	+4
7	0.972 385	4 387	287	−3	0.211 282	15 267	62	0	0.091 639	6 622	27	+5
8	0.967 998	4 673	286	−4	0.226 549	15 201	66	0	0.098 261	6 593	29	+4
9	−0.963 325	+4 958	+285	−5	−0.241 750	−15 130	+71	+1	−0.104 854	−6 562	+31	+3
10	0.958 367	5 243	285	0	0.256 880	15 055	75	−2	0.111 416	6 530	32	0
11	0.953 124	5 526	283	−1	0.271 935	14 976	79	−4	0.117 946	6 495	35	+3
12	0.947 598	5 808	282	0	0.286 911	14 892	84	+1	0.124 441	6 458	37	+3
13	0.941 790	+6 090	282	+3	0.301 803	−14 803	89	+5	0.130 899	−6 420	38	−2
14	−0.935 700		+279	−4	−0.316 606		+93	+5	−0.137 319		+41	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Okt. 14	−0.935 700	+ 6 369	+279	−4	−0.316 606	−14 710	+ 93	+5	−0.137 319	−6 379	+ 41	0
15	0.929 331	6 648	279	−2	0.331 316	14 612	98	+4	0.143 698	6 337	42	−5
16	0.922 683	6 924	276	−4	0.345 928	14 510	102	+2	0.150 035	6 293	44	−3
17	0.915 759	7 200	276	+2	0.360 438	14 402	108	+3	0.156 328	6 246	47	+2
18	0.908 559	7 474	274	+4	0.374 840	14 291	111	−4	0.162 574	6 197	49	+3
19	0.901 085	7 746	272	+1	0.389 131	14 174	117	−3	0.168 771	6 147	50	0
20	−0.893 339	+ 8 015	+269	−4	−0.403 305	−14 053	+121	−5	−0.174 918	−6 094	+ 53	+1
21	0.885 324	8 282	267	−3	0.417 358	13 927	126	−4	0.181 012	6 040	54	−2
22	0.877 042	8 547	265	0	0.431 285	13 796	131	+1	0.187 052	5 983	57	+3
23	0.868 495	8 809	262	0	0.445 081	13 660	136	+5	0.193 035	5 924	59	+4
24	0.859 686	9 068	259	−3	0.458 741	13 521	139	0	0.198 959	5 864	60	−1
25	0.850 618	9 324	256	−4	0.472 262	13 376	145	+3	0.204 823	5 802	62	−2
26	−0.841 294	+ 9 577	+253	−4	−0.485 638	−13 229	+147	−5	−0.210 625	−5 738	+ 64	−1
27	0.831 717	9 826	249	−5	0.498 867	13 077	152	−3	0.216 363	5 672	66	+1
28	0.821 891	10 074	248	+3	0.511 944	12 922	155	−3	0.222 035	5 605	67	+1
29	0.811 817	10 318	244	+2	0.524 866	12 762	160	+3	0.227 640	5 535	70	+4
30	0.801 499	10 558	240	−3	0.537 628	12 599	163	+2	0.233 175	5 465	70	−3
31	0.790 941	10 796	238	+2	0.550 227	12 432	167	+4	0.238 640	5 393	72	−3
Nov. 1	−0.780 145	+11 031	+235	+5	−0.562 659	−12 262	+170	+1	−0.244 033	−5 319	+ 74	+1
2	0.769 114	11 263	232	+4	0.574 921	12 088	174	0	0.249 352	5 243	76	+3
3	0.757 851	11 491	228	−1	0.587 009	11 911	177	−1	0.254 595	5 166	77	0
4	0.746 360	11 716	225	+1	0.598 920	11 730	181	0	0.259 761	5 088	78	−4
5	0.734 644	11 939	223	+5	0.610 650	11 546	184	−1	0.264 849	5 008	80	−3
6	0.722 705	12 158	219	+2	0.622 196	11 358	188	+2	0.269 857	4 926	82	+1
7	−0.710 547	+12 374	+216	0	−0.633 554	−11 166	+192	+4	−0.274 783	−4 843	+ 83	−1
8	0.698 173	12 586	212	−4	0.644 720	10 972	194	−1	0.279 626	4 758	85	−1
9	0.685 587	12 795	209	−3	0.655 692	10 773	199	+3	0.284 384	4 673	85	−4
10	0.672 792	13 001	206	−2	0.666 465	10 571	202	0	0.289 057	4 584	89	+4
11	0.659 791	13 203	202	−5	0.677 036	10 366	205	−3	0.293 641	4 495	89	0
12	0.646 588	13 401	198	−5	0.687 402	10 158	208	−5	0.298 136	4 405	90	−4
13	−0.633 187	+13 596	+195	−1	−0.697 560	− 9 945	+213	0	−0.302 541	−4 313	+ 92	−1
14	0.619 591	13 788	192	+2	0.707 505	9 729	216	−2	0.306 854	4 219	94	+3
15	0.605 803	13 974	186	−4	0.717 234	9 510	219	−4	0.311 073	4 124	95	+2
16	0.591 829	14 157	183	0	0.726 744	9 288	222	−3	0.315 197	4 027	97	+3
17	0.577 672	14 336	179	+3	0.736 032	9 061	227	+4	0.319 224	3 929	98	0
18	0.563 336	14 510	174	0	0.745 093	8 831	230	+3	0.323 153	3 830	99	−3
19	−0.548 826	+14 679	+169	−2	−0.753 924	− 8 599	+232	−1	−0.326 983	−3 729	+101	−2
20	0.534 147	14 844	165	+1	0.762 523	8 363	236	0	0.330 712	3 628	101	−4
21	0.519 303	15 003	159	−2	0.770 886	8 125	238	−2	0.334 340	3 524	104	+4
22	0.504 300	15 158	155	0	0.779 011	7 884	241	0	0.337 864	3 419	105	+5
23	0.489 142	+15 307	149	−1	0.786 895	− 7 640	244	+3	0.341 283	−3 314	105	−1
24	−0.473 835		+145	+5	−0.794 535		+245	−1	−0.344 597		+106	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1941.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Nov. 24	−0.473 835	+15 452	+145	+5	−0.794 535	−7 395	+245	−1	−0.344 597	−3 208	+106	−1
25	0.458 383	15 592	140	+5	0.801 930	7 147	248	+2	0.347 805	3 100	108	+2
26	0.442 791	15 727	135	+3	0.809 077	6 897	250	+3	0.350 905	2 992	108	0
27	0.427 064	15 857	130	+1	0.815 974	6 645	252	0	0.353 897	2 883	109	−1
28	0.411 207	15 982	125	−2	0.822 619	6 392	253	−4	0.356 780	2 773	110	+1
29	0.395 225	16 102	120	−3	0.829 011	6 137	255	−5	0.359 553	2 662	111	+1
30	−0.379 123	+16 218	+116	0	−0.835 148	−5 880	+257	−2	−0.362 215	−2 550	+112	+1
Dez. 1	0.362 905	16 329	111	+1	0.841 028	5 621	259	+2	0.364 765	2 439	111	−4
2	0.346 576	16 435	106	0	0.846 649	5 360	261	+5	0.367 204	2 325	114	+4
3	0.330 141	16 536	101	−1	0.852 009	5 098	262	0	0.369 529	2 211	114	+2
4	0.313 605	16 633	97	+3	0.857 107	4 835	263	−3	0.371 740	2 097	114	0
5	0.296 972	16 725	92	+1	0.861 942	4 569	266	0	0.373 837	1 981	116	+1
6	−0.280 247	+16 811	+ 86	−4	−0.866 511	−4 303	+266	−4	−0.375 818	−1 866	+115	−5
7	0.263 436	16 893	82	+1	0.870 814	4 034	269	+1	0.377 684	1 750	116	−3
8	0.246 543	16 971	78	+5	0.874 848	3 765	269	−5	0.379 434	1 632	118	+4
9	0.229 572	17 043	72	+3	0.878 613	3 494	271	−4	0.381 066	1 515	117	−1
10	0.212 529	17 110	67	+1	0.882 107	3 221	273	+1	0.382 581	1 396	119	+3
11	0.195 419	17 172	62	0	0.885 328	2 947	274	−1	0.383 977	1 277	119	+1
12	−0.178 247	+17 229	+ 57	+2	−0.888 275	−2 672	+275	−4	−0.385 254	−1 159	+118	−4
13	0.161 018	17 281	52	+2	0.890 947	2 396	276	−4	0.386 413	1 038	121	+3
14	0.143 737	17 327	46	0	0.893 343	2 117	279	+2	0.387 451	918	120	0
15	0.126 410	17 368	41	+1	0.895 460	1 839	278	−3	0.388 369	797	121	+2
16	0.109 042	17 403	35	−2	0.897 299	1 559	280	0	0.389 166	676	121	+1
17	0.091 639	17 432	29	−5	0.898 858	1 278	281	+1	0.389 842	554	122	+3
18	−0.074 207	+17 455	+ 23	−4	−0.900 136	− 996	+282	+1	−0.390 396	− 432	+122	+1
19	0.056 752	17 473	18	0	0.901 132	715	281	−4	0.390 828	311	121	−2
20	0.039 279	17 485	12	−1	0.901 847	433	282	−4	0.391 139	188	123	+5
21	0.021 794	17 490	+ 5	−5	0.902 280	− 151	282	−4	0.391 327	− 66	122	+3
22	−0.004 304	17 490	0	−1	0.902 431	+ 130	281	−5	0.391 393	+ 56	122	+1
23	+0.013 186	17 485	− 5	+2	0.902 301	412	282	−1	0.391 337	178	122	+2
24	+0.030 671	+17 474	− 11	0	−0.901 889	+ 693	+281	−2	−0.391 159	+ 300	+122	+1
25	0.048 145	17 457	17	−3	0.901 196	973	280	−4	0.390 859	421	121	−1
26	0.065 602	17 435	22	−1	0.900 223	1 253	280	−3	0.390 438	543	122	+5
27	0.083 037	17 408	27	+1	0.898 970	1 532	279	−4	0.389 895	664	121	+2
28	0.100 445	17 375	33	0	0.897 438	1 810	278	−4	0.389 231	785	121	+2
29	0.117 820	17 338	37	+4	0.895 628	2 088	278	+1	0.388 446	906	121	+1
30	+0.135 158	+17 295	− 43	+2	−0.893 540	+2 365	+277	+4	−0.387 540	+1 025	+119	−4
31	0.152 453	+17 247	48	+1	0.891 175	+2 641	276	+3	0.386 515	+1 146	121	+2
32	+0.169 700		− 53	−1	−0.888 534		+276	+5	−0.385 369		+119	−2

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

Frühlingsäquinoktium	21. März	0^h 21^m	Herbstäquinoktium	23. Sept.	10^h 33^m
Sommersolstitium	21. Juni	19 34	Wintersolstitium	22. Dez.	5 45

Erdnähe 3. Jan. 18^h
Erdferne 3. Juli 0

Tag		0ʰ Welt-Zeit			
		Aberration	Parallaxe	Mittlere Länge $L_{\odot}$	Mittlere Anomalie $M_{\odot}$
1941		"	"	°	°
Jan.	0	20.82	8.95	279.2727	357.35
	10	20.82	8.95	289.1292	7.20
	20	20.80	8.94	298.9857	17.06
	30	20.78	8.93	308.8422	26.92
Febr.	9	20.75	8.92	318.6986	36.77
	19	20.71	8.90	328.5551	46.63
März	1	20.66	8.88	338.4116	56.48
	11	20.60	8.86	348.2681	66.34
	21	20.55	8.83	358.1245	76.20
	31	20.49	8.81	7.9810	86.05
April	10	20.43	8.78	17.8375	95.91
	20	20.37	8.76	27.6940	105.76
	30	20.32	8.73	37.5504	115.62
Mai	10	20.27	8.71	47.4069	125.48
	20	20.23	8.70	57.2634	135.33
	30	20.19	8.68	67.1199	145.19
Juni	9	20.16	8.67	76.9763	155.04
	19	20.14	8.66	86.8328	164.90
	29	20.13	8.66	96.6893	174.76
Juli	9	20.13	8.66	106.5457	184.61
	19	20.14	8.66	116.4022	194.47
	29	20.16	8.67	126.2587	204.32
Aug.	8	20.19	8.68	136.1152	214.18
	18	20.22	8.69	145.9716	224.04
	28	20.27	8.71	155.8281	233.89
Sept.	7	20.32	8.73	165.6846	243.75
	17	20.37	8.76	175.5411	253.60
	27	20.43	8.78	185.3975	263.46
Okt.	7	20.48	8.81	195.2540	273.32
	17	20.54	8.83	205.1105	283.17
	27	20.60	8.86	214.9670	293.03
Nov.	6	20.65	8.88	224.8234	302.88
	16	20.70	8.90	234.6799	312.74
	26	20.74	8.92	244.5364	322.60
Dez.	6	20.78	8.93	254.3928	332.45
	16	20.80	8.94	264.2493	342.31
	26	20.81	8.95	274.1058	352.16
	36	20.82	8.95	283.9623	2.02

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension	Diff.	Scheinbare Deklination	Diff.	Parallaxe	Diff.	Halbmesser	Diff.	Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Jan. 0	20 29 13	52 14	−14 33.5	2 56.3	57 7.4	44.0	15 35.3	11.9	306.036	+4.340	2.1
1	21 21 27	49 40	−11 37.2	3 24.4	56 23.4	41.2	15 23.4	11.3	319.098	+3.659	3.1
2	22 11 7	47 36	− 8 12.8	3 40.8	55 42.2	35.4	15 12.1	9.6	331.787	+2.811	4.1
3	22 58 43	46 8	− 4 32.0	3 47.3	55 6.8	27.3	15 2.5	7.4	344.143	+1.849	5.1
4	23 44 51	45 23	− 0 44.7	3 45.7	54 39.5	17.7	14 55.1	4.9	356.230	+0.821	6.1
5	0 30 14	45 18	+ 3 1.0	3 36.8	54 21.8	7.4	14 50.2	2.0	8.130	−0.228	7.1
6	1 15 32	45 55	+ 6 37.8	3 21.1	54 14.4	3.3	14 48.2	0.9	19.935	−1.260	8.1
7	2 1 27	47 5	+ 9 58.9	2 58.2	54 17.7	13.4	14 49.1	3.7	31.739	−2.237	9.1
8	2 48 32	48 45	+12 57.1	2 27.7	54 31.1	22.4	14 52.8	6.1	43.633	−3.124	10.1
9	3 37 17	50 40	+15 24.8	1 48.8	54 53.5	29.8	14 58.9	8.1	55.698	−3.883	11.1
10	4 27 57	52 33	+17 13.6	1 1.6	55 23.3	35.1	15 7.0	9.6	68.002	−4.477	12.1
11	5 20 30	54 11	+18 15.2	0 7.4	55 58.4	37.7	15 16.6	10.2	80.594	−4.869	13.1
12	6 14 41	55 14	+18 22.6	0 51.4	56 36.1	37.7	15 26.8	10.3	93.496	−5.024	14.1
13	7 9 55	55 37	+17 31.2	1 50.5	57 13.8	35.0	15 37.1	9.5	106.707	−4.917	15.1
14	8 5 32	55 25	+15 40.7	2 45.0	57 48.8	30.1	15 46.6	8.2	120.197	−4.536	16.1
15	9 0 57	54 50	+12 55.7	3 30.7	58 18.9	23.9	15 54.8	6.6	133.919	−3.888	17.1
16	9 55 47	54 12	+ 9 25.0	4 3.9	58 42.8	17.0	16 1.4	4.6	147.813	−3.001	18.1
17	10 49 59	53 47	+ 5 21.1	4 22.9	58 59.8	10.3	16 6.0	2.8	161.820	−1.924	19.1
18	11 43 46	53 47	+ 0 58.2	4 26.5	59 10.1	4.4	16 8.8	1.2	175.891	−0.723	20.1
19	12 37 33	54 16	− 3 28.3	4 15.0	59 14.5	0.8	16 10.0	0.2	189.989	+0.527	21.1
20	13 31 49	55 11	− 7 43.3	3 48.4	59 13.7	5.3	16 9.8	1.5	204.090	+1.747	22.1
21	14 27 0	56 20	−11 31.7	3 8.0	59 8.4	9.4	16 8.3	2.5	218.179	+2.859	23.1
22	15 23 20	57 26	−14 39.7	2 15.6	58 59.0	13.6	16 5.8	3.7	232.241	+3.795	24.1
23	16 20 46	58 4	−16 55.3	1 14.4	58 45.4	18.0	16 2.1	4.9	246.256	+4.500	25.1
24	17 18 50	57 58	−18 9.7	0 9.0	58 27.4	22.7	15 57.2	6.2	260.191	+4.934	26.1
25	18 16 48	56 59	−18 18.7	0 54.8	58 4.7	27.3	15 51.0	7.5	274.004	+5.075	27.1
26	19 13 47	55 16	−17 23.9	1 52.0	57 37.4	31.1	15 43.5	8.4	287.642	+4.924	28.1
27	20 9 3	53 4	−15 31.9	2 38.7	57 6.3	33.6	15 35.1	9.2	301.056	+4.502	29.1
28	21 2 7	50 48	−12 53.2	3 13.1	56 32.7	34.4	15 25.9	9.4	314.203	+3.846	0.5
29	21 52 55	48 44	− 9 40.1	3 35.3	55 58.3	32.8	15 16.5	8.9	327.059	+3.005	1.5
30	22 41 39	47 6	− 6 4.8	3 46.5	55 25.5	28.9	15 7.6	7.9	339.623	+2.032	2.5
31	23 28 45	46 2	− 2 18.3	3 48.0	54 56.6	22.9	14 59.7	6.2	351.917	+0.982	3.5
Febr. 1	0 14 47	45 33	+ 1 29.7	3 41.2	54 33.7	15.1	14 53.5	4.1	3.984	−0.097	4.5
2	1 0 20	45 41	+ 5 10.9	3 27.2	54 18.6	5.9	14 49.4	1.6	15.886	−1.160	5.5
3	1 46 1	46 24	+ 8 38.1	3 6.2	54 12.7	4.4	14 47.8	1.2	27.699	−2.166	6.5
4	2 32 25	47 38	+11 44.3	2 38.5	54 17.1	14.9	14 49.0	4.0	39.507	−3.080	7.5
5	3 20 3	49 16	+14 22.8	2 3.3	54 32.0	25.2	14 53.0	6.9	51.399	−3.867	8.5
6	4 9 19	51 7	+16 26.1	1 20.7	54 57.2	34.4	14 59.9	9.4	63.464	−4.496	9.5
7	5 0 26	52 56	+17 46.8	0 30.8	55 31.6	41.8	15 9.3	11.3	75.781	−4.932	10.5
8	5 53 22	54 29	+18 17.6	0 25.2	56 13.4	46.6	15 20.6	12.7	88.419	−5.142	11.5
9	6 47 51	55 34	+17 52.4	1 24.3	57 0.0	47.9	15 33.3	13.1	101.424	−5.097	12.5
10	7 43 25		+16 28.1		57 47.9		15 46.4		114.813	−4.777	13.5

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Jan. 0	21 0 47	134	−12 52.1	+ 7.8	56.7	14 21.3	2.07	9 18	1.4	19 31	2.6
1	21 53 6	127	− 9 30.6	+ 8.9	55.9	15 9.6	1.95	9 50	1.2	20 37	2.7
2	22 42 54	122	− 5 47.5	+ 9.6	55.3	15 55.3	1.86	10 18	1.1	21 42	2.7
3	23 30 51	118	− 1 54.5	+ 9.8	54.8	16 39.2	1.80	10 43	1.0	22 45	2.6
4	0 17 43	117	+ 1 59.2	+ 9.6	54.4	17 22.0	1.78	11 7	1.0	23 47	2.6
5	1 4 19	117	+ 5 45.4	+ 9.2	54.3	18 4.6	1.78	11 31	1.0	— —	—
6	1 51 24	119	+ 9 16.9	+ 8.4	54.3	18 47.6	1.81	11 56	1.1	0 48	2.5
7	2 39 39	123	+12 26.0	+ 7.3	54.5	19 31.8	1.88	12 23	1.2	1 49	2.5
8	3 29 38	128	+15 4.3	+ 5.8	54.8	20 17.7	1.95	12 53	1.4	2 50	2.5
9	4 21 42	133	+17 2.8	+ 4.0	55.3	21 5.7	2.05	13 28	1.6	3 50	2.5
10	5 15 54	138	+18 12.0	+ 1.7	55.9	21 55.8	2.13	14 10	1.9	4 49	2.4
11	6 11 56	142	+18 23.6	− 0.8	56.6	22 47.7	2.19	14 58	2.2	5 44	2.2
12	7 9 11	144	+17 32.2	− 3.5	57.2	23 40.9	2.23	15 55	2.5	6 36	2.0
13	— — —	—	— —	—	—	— —	—	16 57	2.7	7 22	1.8
14	8 6 52	144	+15 37.4	− 6.1	57.8	0 34.5	2.23	18 6	2.9	8 3	1.6
15	9 4 19	143	+12 44.0	− 8.3	58.3	1 27.9	2.21	19 17	3.0	8 40	1.4
16	10 1 6	141	+ 9 2.4	−10.1	58.7	2 20.6	2.18	20 31	3.1	9 12	1.3
17	10 57 12	140	+ 4 46.7	−11.1	59.0	3 12.6	2.15	21 45	3.1	9 43	1.2
18	11 52 53	139	+ 0 12.9	−11.6	59.2	4 4.2	2.15	23 0	3.1	10 12	1.2
19	12 48 38	140	− 4 22.2	−11.2	59.2	4 55.9	2.16	— —	—	10 41	1.3
20	13 45 3	142	− 8 41.5	−10.2	59.2	5 48.2	2.20	0 15	3.1	11 13	1.4
21	14 42 35	145	−12 28.8	− 8.6	59.1	6 41.6	2.25	1 29	3.0	11 47	1.5
22	15 41 26	149	−15 28.9	− 6.3	58.9	7 36.4	2.31	2 41	2.9	12 27	1.8
23	16 41 23	151	−17 29.1	− 3.6	58.7	8 32.2	2.34	3 49	2.7	13 12	2.1
24	17 41 47	151	−18 21.1	− 0.7	58.3	9 28.5	2.34	4 52	2.4	14 5	2.3
25	18 41 41	148	−18 2.5	+ 2.2	57.9	10 24.3	2.30	5 47	2.1	15 3	2.5
26	19 40 5	143	−16 37.6	+ 4.8	57.4	11 18.6	2.22	6 35	1.8	16 7	2.7
27	20 36 16	137	−14 16.5	+ 6.9	56.8	12 10.7	2.12	7 15	1.5	17 13	2.8
28	21 29 55	131	−11 12.1	+ 8.4	56.2	13 0.3	2.02	7 49	1.3	18 19	2.8
29	22 21 9	125	− 7 38.3	+ 9.3	55.7	13 47.5	1.92	8 19	1.2	19 25	2.7
30	23 10 22	121	− 3 48.2	+ 9.8	55.1	14 32.6	1.85	8 45	1.1	20 29	2.6
31	23 58 8	118	+ 0 7.2	+ 9.8	54.7	15 16.3	1.80	9 10	1.0	21 32	2.6
Febr. 1	0 45 8	117	+ 3 58.3	+ 9.4	54.4	15 59.3	1.78	9 34	1.0	22 34	2.6
2	1 32 4	118	+ 7 37.0	+ 8.7	54.2	16 42.2	1.80	9 59	1.1	23 35	2.5
3	2 19 36	120	+10 55.8	+ 7.8	54.2	17 25.6	1.83	10 25	1.1	— —	—
4	3 8 21	124	+13 47.2	+ 6.5	54.5	18 10.3	1.90	10 54	1.3	0 36	2.5
5	3 58 48	129	+16 3.4	+ 4.8	54.9	18 56.7	1.97	11 26	1.5	1 35	2.5
6	4 51 15	134	+17 36.0	+ 2.8	55.4	19 45.1	2.06	12 4	1.7	2 34	2.4
7	5 45 45	139	+18 16.5	+ 0.5	56.1	20 35.5	2.14	12 48	2.0	3 30	2.3
8	6 42 2	143	+17 57.9	− 2.1	56.9	21 27.7	2.20	13 40	2.3	4 24	2.1
9	7 39 35	145	+16 35.8	− 4.8	57.7	22 21.1	2.24	14 39	2.6	5 13	1.9
10	8 37 45	146	+14 10.6	− 7.3	58.5	23 15.2	2.26	15 45	2.9	5 56	1.7

Tag	0ʰ Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Febr. 10	7 43 25	56 5	+16 28.1	2 22.7	57 47.9	45.2	15 46.4	12.3	114.813	−4.777	13.5
11	8 39 30	56 8	+14 5.4	3 15.2	58 33.1	38.7	15 58.7	10.6	128.572	−4.175	14.5
12	9 35 38	55 51	+10 50.2	3 56.8	59 11.8	28.8	16 9.3	7.8	142.652	−3.308	15.5
13	10 31 29	55 34	+ 6 53.4	4 23.6	59 40.6	16.8	16 17.1	4.6	156.977	−2.218	16.5
14	11 27 3	55 27	+ 2 29.8	4 33.4	59 57.4	4.1	16 21.7	1.1	171.452	−0.973	17.5
15	12 22 30	55 36	− 2 3.6	4 25.3	60 1.5	7.3	16 22.8	2.0	185.979	+0.343	18.5
16	13 18 6	56 3	− 6 28.9	4 0.4	59 54.2	16.7	16 20.8	4.5	200.471	+1.636	19.5
17	14 14 9	56 40	−10 29.3	3 20.5	59 37.5	23.4	16 16.3	6.4	214.857	+2.816	20.5
18	15 10 49	57 13	−13 49.8	2 28.8	59 14.1	27.4	16 9.9	7.5	229.089	+3.810	21.5
19	16 8 2	57 27	−16 18.6	1 29.2	58 46.7	29.5	16 2.4	8.0	243.137	+4.561	22.5
20	17 5 29	57 8	−17 47.8	0 25.8	58 17.2	30.3	15 54.4	8.3	256.985	+5.035	23.5
21	18 2 37	56 11	−18 13.6	0 36.2	57 46.9	30.1	15 46.1	8.2	270.624	+5.216	24.5
22	18 58 48	54 39	−17 37.4	1 33.0	57 16.8	29.8	15 37.9	8.1	284.051	+5.107	25.5
23	19 53 27	52 48	−16 4.4	2 21.3	56 47.0	29.1	15 29.8	7.9	297.262	+4.727	26.5
24	20 46 15	50 48	−13 43.1	2 59.0	56 17.9	28.3	15 21.9	7.7	310.251	+4.107	27.5
25	21 37 3	49 0	−10 44.1	3 25.7	55 49.6	26.9	15 14.2	7.4	323.019	+3.291	28.5
26	22 26 3	47 28	− 7 18.4	3 41.4	55 22.7	24.8	15 6.8	6.7	335.566	+2.327	29.5
27	23 13 31	46 24	− 3 37.0	3 47.1	54 57.9	21.4	15 0.1	5.9	347.903	+1.267	0.9
28	23 59 55	45 49	+ 0 10.1	3 43.7	54 36.5	16.7	14 54.2	4.5	0.048	+0.163	1.9
März 1	0 45 44	45 43	+ 3 53.8	3 32.1	54 19.8	10.7	14 49.7	2.9	12.034	−0.935	2.9
2	1 31 27	46 8	+ 7 25.9	3 13.1	54 9.1	3.1	14 46.8	0.9	23.902	−1.983	3.9
3	2 17 35	46 59	+10 39.0	2 47.1	54 6.0	5.7	14 45.9	1.6	35.708	−2.942	4.9
4	3 4 34	48 12	+13 26.1	2 14.3	54 11.7	15.3	14 47.5	4.2	47.517	−3.777	5.9
5	3 52 46	49 40	+15 40.4	1 35.0	54 27.0	25.3	14 51.7	6.8	59.403	−4.455	6.9
6	4 42 26	51 14	+17 15.4	0 49.1	54 52.3	35.3	14 58.5	9.7	71.443	−4.948	7.9
7	5 33 40	52 45	+18 4.5	0 2.4	55 27.6	44.2	15 8.2	12.0	83.718	−5.226	8.9
8	6 26 25	54 1	+18 2.1	0 58.0	56 11.8	51.2	15 20.2	14.0	96.305	−5.265	9.9
9	7 20 26	55 0	+17 4.1	1 55.2	57 3.0	55.1	15 34.2	15.0	109.266	−5.041	10.9
10	8 15 26	55 37	+15 8.9	2 50.3	57 58.1	54.7	15 49.2	14.9	122.647	−4.541	11.9
11	9 11 3	56 1	+12 18.6	3 38.5	58 52.8	49.5	16 4.1	13.5	136.461	−3.766	12.9
12	10 7 4	56 20	+ 8 40.1	4 15.2	59 42.3	39.1	16 17.6	10.6	150.688	−2.739	13.9
13	11 3 24	56 40	+ 4 24.9	4 35.8	60 21.4	24.5	16 28.2	6.7	165.264	−1.510	14.9
14	12 0 4	57 12	− 0 10.9	4 37.3	60 45.9	7.3	16 34.9	2.0	180.089	−0.159	15.9
15	12 57 16	57 50	− 4 48.2	4 18.9	60 53.2	9.7	16 36.9	2.7	195.037	+1.215	16.9
16	13 55 6	58 28	− 9 7.1	3 41.7	60 43.5	24.5	16 34.2	6.6	209.972	+2.505	17.9
17	14 53 34	58 54	−12 48.8	2 49.7	60 19.0	35.5	16 27.6	9.7	224.768	+3.615	18.9
18	15 52 28	58 50	−15 38.5	1 47.7	59 43.5	42.1	16 17.9	11.5	239.324	+4.472	19.9
19	16 51 18	58 8	−17 26.2	0 42.1	59 1.4	44.5	16 6.4	12.1	253.572	+5.033	20.9
20	17 49 26	56 46	−18 8.3	0 22.0	58 16.9	43.8	15 54.3	11.9	267.479	+5.283	21.9
21	18 46 12	54 55	−17 46.3	1 19.9	57 33.1	41.1	15 42.4	11.2	281.040	+5.231	22.9
22	19 41 7	52 47	−16 26.4	2 9.1	56 52.0	37.1	15 31.2	10.1	294.272	+4.899	23.9
23	20 33 54		−14 17.3		56 14.9		15 21.1		307.205	+4.325	24.9

Tag	Obere Kulmination in Greenwich AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Febr. 10	8 37 45	146	+14 10.6	− 7.3	58.5	23 15.2	2.26	15 45	2.9	5 56	1.7
11	— — —	—	— —	—	—	— —	—	16 57	3.0	6 36	1.6
12	9 35 59	145	+10 48.8	− 9.4	59.2	0 9.4	2.24	18 11	3.1	7 11	1.4
13	10 33 56	144	+ 6 42.3	−11.0	59.7	1 3.2	2.24	19 28	3.2	7 43	1.3
14	11 31 33	144	+ 2 7.8	−11.8	60.0	1 56.8	2.23	20 45	3.2	8 14	1.3
15	12 29 3	144	− 2 35.7	−11.7	60.0	2 50.2	2.23	22 2	3.2	8 44	1.3
16	13 26 47	145	− 7 8.3	−10.9	59.9	3 43.8	2.25	23 18	3.1	9 16	1.4
17	14 25 3	147	−11 11.5	− 9.3	59.6	4 38.0	2.27	— —	—	9 50	1.5
18	15 24 0	148	−14 29.2	− 7.1	59.1	5 32.8	2.30	0 31	3.0	10 28	1.7
19	16 23 32	149	−16 48.8	− 4.5	58.6	6 28.3	2.32	1 41	2.8	11 12	1.9
20	17 23 10	149	−18 2.5	− 1.6	58.1	7 23.8	2.30	2 45	2.5	12 1	2.2
21	18 22 13	146	−18 7.9	+ 1.2	57.6	8 18.8	2.27	3 42	2.2	12 57	2.4
22	19 19 58	142	−17 8.0	+ 3.8	57.1	9 12.4	2.20	4 31	1.9	13 57	2.6
23	20 15 51	137	−15 10.4	+ 6.0	56.6	10 4.2	2.11	5 13	1.6	15 1	2.7
24	21 9 33	132	−12 25.9	+ 7.7	56.1	10 53.9	2.03	5 49	1.4	16 6	2.7
25	22 1 8	126	− 9 6.6	+ 8.9	55.6	11 41.4	1.94	6 20	1.2	17 11	2.7
26	22 50 50	122	− 5 24.9	+ 9.5	55.2	12 27.0	1.87	6 47	1.1	18 15	2.7
27	23 39 7	119	− 1 32.3	+ 9.8	54.8	13 11.2	1.82	7 13	1.0	19 19	2.6
28	0 26 30	118	+ 2 20.7	+ 9.6	54.4	13 54.5	1.80	7 38	1.0	20 21	2.6
März 1	1 13 34	118	+ 6 5.0	+ 9.0	54.2	14 37.5	1.80	8 2	1.0	21 23	2.5
2	2 0 53	119	+ 9 32.0	+ 8.2	54.1	15 20.8	1.82	8 28	1.1	22 24	2.5
3	2 48 57	122	+12 34.3	+ 7.0	54.1	16 4.8	1.85	8 55	1.2	23 23	2.5
4	3 38 14	125	+15 4.2	+ 5.5	54.4	16 50.0	1.92	9 26	1.4	— —	—
5	4 29 4	129	+16 54.3	+ 3.7	54.7	17 36.8	1.98	10 1	1.6	0 22	2.4
6	5 21 37	134	+17 57.5	+ 1.6	55.3	18 25.3	2.05	10 41	1.8	1 18	2.3
7	6 15 53	138	+18 6.9	− 0.8	56.0	19 15.4	2.13	11 28	2.1	2 12	2.2
8	7 11 38	141	+17 17.4	− 3.3	56.9	20 7.1	2.18	12 22	2.4	3 2	2.0
9	8 8 31	143	+15 26.4	− 5.9	57.9	20 59.9	2.22	13 24	2.7	3 47	1.8
10	9 6 9	145	+12 35.7	− 8.3	58.8	21 53.4	2.24	14 32	2.9	4 28	1.6
11	10 4 14	146	+ 8 52.1	−10.3	59.7	22 47.5	2.26	15 45	3.1	5 5	1.5
12	11 2 41	147	+ 4 28.3	−11.6	60.4	23 41.8	2.27	17 1	3.2	5 39	1.4
13	— — —	—	— —	—	—	— —	—	18 20	3.3	6 11	1.3
14	12 1 31	148	− 0 18.0	−12.1	60.8	0 36.5	2.29	19 39	3.3	6 42	1.3
15	13 0 56	149	− 5 5.5	−11.7	60.9	1 31.9	2.32	20 58	3.3	7 14	1.4
16	14 1 5	151	− 9 31.9	−10.4	60.7	2 27.9	2.35	22 16	3.2	7 48	1.5
17	15 1 56	153	−13 16.4	− 8.2	60.2	3 24.7	2.38	23 29	2.9	8 26	1.7
18	16 3 11	153	−16 2.9	− 5.6	59.6	4 21.8	2.38	— —	—	9 9	1.9
19	17 4 15	152	−17 41.2	− 2.6	58.9	5 18.8	2.36	0 37	2.7	9 58	2.2
20	18 4 22	148	−18 8.6	+ 0.3	58.1	6 14.8	2.30	1 38	2.3	10 52	2.4
21	19 2 47	143	−17 28.2	+ 3.0	57.3	7 9.1	2.22	2 29	2.0	11 52	2.5
22	19 59 0	138	−15 48.2	+ 5.3	56.7	8 1.3	2.12	3 13	1.7	12 54	2.6
23	20 52 50	132	−13 19.3	+ 7.1	56.0	8 51.0	2.03	3 50	1.4	13 58	2.7

Mond 1941

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
März 23	20 33 54	50 41	−14 17.3	2 48.1	56 14.9	32.6	15 21.1	8.9	307.205	+4.325	24.9
24	21 24 35	48 49	−11 29.2	3 16.7	55 42.3	28.1	15 12.2	7.7	319.874	+3.548	25.9
25	22 13 24	47 20	− 8 12.5	3 35.3	55 14.2	23.7	15 4.5	6.4	332.318	+2.616	26.9
26	23 0 44	46 17	− 4 37.2	3 44.1	54 50.5	19.6	14 58.1	5.4	344.572	+1.577	27.9
27	23 47 1	45 44	− 0 53.1	3 44.1	54 30.9	15.3	14 52.7	4.1	356.669	+0.479	28.9
28	0 32 45	45 39	+ 2 51.0	3 35.6	54 15.6	10.6	14 48.6	2.9	8.643	−0.629	0.2
29	1 18 24	46 0	+ 6 26.6	3 19.1	54 5.0	5.5	14 45.7	1.5	20.525	−1.700	1.2
30	2 4 24	46 43	+ 9 45.7	2 55.2	53 59.5	0.7	14 44.2	0.2	32.350	−2.692	2.2
31	2 51 7	47 44	+12 40.9	2 24.1	54 0.2	7.6	14 44.4	2.0	44.156	−3.567	3.2
April 1	3 38 51	48 54	+15 5.0	1 46.4	54 7.8	15.6	14 46.4	4.3	55.988	−4.291	4.2
2	4 27 45	50 9	+16 51.4	1 2.9	54 23.4	24.2	14 50.7	6.6	67.899	−4.835	5.2
3	5 17 54	51 19	+17 54.3	0 14.3	54 47.6	33.3	14 57.3	9.0	79.948	−5.173	6.2
4	6 9 13	52 21	+18 8.6	0 37.9	55 20.9	42.2	15 6.3	11.5	92.200	−5.284	7.2
5	7 1 34	53 11	+17 30.7	1 31.8	56 3.1	50.0	15 17.8	13.7	104.723	−5.149	8.2
6	7 54 45	53 50	+15 58.9	2 25.0	56 53.1	55.8	15 31.5	15.2	117.585	−4.758	9.2
7	8 48 35	54 26	+13 33.9	3 14.4	57 48.9	58.2	15 46.7	15.8	130.844	−4.105	10.2
8	9 43 1	55 5	+10 19.5	3 56.2	58 47.1	55.8	16 2.5	15.2	144.541	−3.201	11.2
9	10 38 6	55 54	+ 6 23.3	4 25.9	59 42.9	48.0	16 17.7	13.1	158.688	−2.076	12.2
10	11 34 0	56 58	+ 1 57.4	4 39.7	60 30.9	34.5	16 30.8	9.4	173.257	−0.786	13.2
11	12 30 58	58 15	− 2 42.3	4 33.5	61 5.4	16.6	16 40.2	4.5	188.176	+0.587	14.2
12	13 29 13	59 35	− 7 15.8	4 6.1	61 22.0	3.5	16 44.7	0.9	203.324	+1.937	15.2
13	14 28 48	60 39	−11 21.9	3 19.0	61 18.5	22.6	16 43.8	6.2	218.548	+3.155	16.2
14	15 29 27	61 4	−14 40.9	2 16.9	60 55.9	38.2	16 37.6	10.4	233.682	+4.143	17.2
15	16 30 31	60 35	−16 57.8	1 7.0	60 17.7	48.8	16 27.2	13.3	248.573	+4.832	18.2
16	17 31 6	59 6	−18 4.8	0 2.9	59 28.9	53.9	16 13.9	14.7	263.104	+5.192	19.2
17	18 30 12	56 52	−18 1.9	1 6.4	58 35.0	54.2	15 59.2	14.7	277.207	+5.224	20.2
18	19 27 4	54 14	−16 55.5	1 59.5	57 40.8	50.8	15 44.5	13.9	290.859	+4.956	21.2
19	20 21 18	51 36	−14 56.0	2 41.3	56 50.0	45.3	15 30.6	12.3	304.080	+4.430	22.2
20	21 12 54	49 18	−12 14.7	3 11.5	56 4.7	38.4	15 18.3	10.5	316.915	+3.694	23.2
21	22 2 12	47 28	− 9 3.2	3 31.6	55 26.3	31.1	15 7.8	8.5	329.425	+2.799	24.2
22	22 49 40	46 12	− 5 31.6	3 42.2	54 55.2	23.9	14 59.3	6.5	341.678	+1.792	25.2
23	23 35 52	45 31	− 1 49.4	3 44.3	54 31.3	17.4	14 52.8	4.7	353.739	+0.722	26.2
24	0 21 23	45 24	+ 1 54.9	3 38.4	54 13.9	11.3	14 48.1	3.1	5.667	−0.367	27.2
25	1 6 47	45 45	+ 5 33.3	3 24.6	54 2.6	5.7	14 45.0	1.5	17.514	−1.430	28.2
26	1 52 32	46 30	+ 8 57.9	3 3.1	53 56.9	0.3	14 43.5	0.1	29.324	−2.427	29.2
27	2 39 2	47 31	+12 1.0	2 34.1	53 56.6	5.0	14 43.4	1.3	41.133	−3.316	0.4
28	3 26 33	48 40	+14 35.1	1 57.9	54 1.6	10.6	14 44.7	2.9	52.975	−4.064	1.4
29	4 15 13	49 50	+16 33.0	1 15.5	54 12.2	16.7	14 47.6	4.6	64.880	−4.638	2.4
30	5 5 3	50 49	+17 48.5	0 27.9	54 28.9	23.3	14 52.2	6.3	76.882	−5.013	3.4
Mai 1	5 55 52	51 35	+18 16.4	0 22.9	54 52.2	30.4	14 58.5	8.3	89.016	−5.168	4.4
2	6 47 27	52 5	+17 53.5	1 15.1	55 22.6	37.7	15 6.8	10.3	101.327	−5.088	5.4
3	7 39 32		+16 38.4		56 0.3		15 17.1		113.863	−4.766	6.4

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
März 23	20 52 50	132	−13 19.3	+ 7.1	56.0	8 51.0	2.03	3 50	1.4	13 58	2.7
24	21 44 24	126	−10 13.0	+ 8.4	55.5	9 38.5	1.94	4 22	1.3	15 2	2.7
25	22 34 4	122	− 6 40.9	+ 9.3	55.1	10 24.1	1.87	4 51	1.1	16 6	2.6
26	23 22 18	119	− 2 53.8	+ 9.6	54.7	11 8.3	1.82	5 17	1.1	17 9	2.6
27	0 9 39	118	+ 0 58.2	+ 9.6	54.4	11 51.6	1.80	5 41	1.0	18 12	2.6
28	0 56 39	117	+ 4 45.5	+ 9.3	54.2	12 34.5	1.79	6 6	1.0	19 13	2.6
29	1 43 49	119	+ 8 19.4	+ 8.5	54.0	13 17.6	1.81	6 31	1.1	20 14	2.5
30	2 31 35	121	+11 31.5	+ 7.4	54.0	14 1.3	1.84	6 58	1.2	21 14	2.5
31	3 20 21	123	+14 13.7	+ 6.0	54.1	14 46.0	1.89	7 27	1.3	22 13	2.4
April 1	4 10 21	127	+16 18.6	+ 4.3	54.3	15 32.0	1.94	8 0	1.5	23 10	2.3
2	5 1 43	130	+17 39.2	+ 2.4	54.6	16 19.2	2.00	8 38	1.7	— —	—
3	5 54 25	133	+18 9.7	+ 0.2	55.2	17 7.9	2.05	9 22	2.0	0 4	2.2
4	6 48 19	136	+17 45.3	− 2.2	55.9	17 57.7	2.10	10 12	2.2	0 55	2.0
5	7 43 11	138	+16 23.3	− 4.6	56.7	18 48.5	2.13	11 8	2.5	1 41	1.8
6	8 38 49	140	+14 3.9	− 7.0	57.6	19 40.0	2.16	12 12	2.7	2 22	1.6
7	9 35 8	142	+10 50.3	− 9.1	58.6	20 32.3	2.19	13 20	2.9	3 0	1.5
8	10 32 8	144	+ 6 50.4	−10.8	59.6	21 25.2	2.23	14 33	3.1	3 34	1.4
9	11 30 2	146	+ 2 16.7	−11.9	60.5	22 19.0	2.26	15 49	3.2	4 6	1.3
10	12 29 7	149	− 2 33.3	−12.1	61.1	23 14.0	2.32	17 8	3.3	4 37	1.3
11	— — —	—	— —	—	—	— —	—	18 29	3.4	5 9	1.4
12	13 29 39	153	− 7 17.7	−11.4	61.4	0 10.4	2.38	19 49	3.3	5 42	1.5
13	14 31 40	157	−11 32.6	− 9.7	61.3	1 8.3	2.44	21 8	3.2	6 19	1.6
14	15 34 51	159	−14 55.7	− 7.1	60.9	2 7.4	2.48	22 21	2.9	7 1	1.9
15	16 38 26	159	−17 10.5	− 4.1	60.2	3 6.9	2.47	23 27	2.6	7 49	2.1
16	17 41 19	155	−18 9.1	− 0.8	59.3	4 5.6	2.42	— —	—	8 43	2.4
17	18 42 21	150	−17 52.9	+ 2.1	58.4	5 2.6	2.32	0 24	2.2	9 43	2.6
18	19 40 45	142	−16 30.4	+ 4.7	57.5	5 56.9	2.20	1 12	1.8	10 46	2.7
19	20 36 11	135	−14 14.0	+ 6.6	56.6	6 48.3	2.08	1 52	1.5	11 50	2.7
20	21 28 46	128	−11 16.7	+ 8.1	55.9	7 36.8	1.97	2 26	1.3	12 55	2.7
21	22 18 57	123	− 7 51.1	+ 9.0	55.2	8 22.9	1.88	2 55	1.2	13 59	2.6
22	23 7 20	119	− 4 8.0	+ 9.5	54.8	9 7.2	1.82	3 22	1.1	15 2	2.6
23	23 54 35	117	− 0 17.3	+ 9.6	54.4	9 50.4	1.79	3 46	1.0	16 4	2.6
24	0 41 20	117	+ 3 32.1	+ 9.4	54.1	10 33.1	1.78	4 10	1.0	17 5	2.6
25	1 28 11	118	+ 7 11.5	+ 8.8	54.0	11 15.9	1.80	4 35	1.1	18 7	2.5
26	2 15 38	120	+10 32.5	+ 7.9	53.9	11 59.3	1.83	5 1	1.1	19 7	2.5
27	3 4 5	123	+13 26.8	+ 6.6	54.0	12 43.6	1.88	5 29	1.2	20 7	2.5
28	3 53 45	126	+15 46.3	+ 5.0	54.1	13 29.2	1.93	6 1	1.4	21 5	2.4
29	4 44 43	129	+17 23.4	+ 3.1	54.4	14 16.1	1.98	6 37	1.6	22 0	2.2
30	5 36 52	132	+18 11.8	+ 0.9	54.7	15 4.2	2.03	7 18	1.9	22 52	2.1
Mai 1	6 29 57	134	+18 7.0	− 1.3	55.2	15 53.2	2.06	8 6	2.1	23 39	1.9
2	7 23 41	135	+17 6.7	− 3.7	55.8	16 42.9	2.08	9 0	2.4	— —	—
3	8 17 49	136	+15 11.0	− 5.9	56.5	17 32.9	2.09	9 59	2.6	0 21	1.7

Tag		0h Welt-Zeit										
		Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941		h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Mai	3	7 39 32	52 24	+16 38.4	2 6.2	56 0.3	44.6	15 17.1	12.1	113.863	−4.766	6.4
	4	8 31 56	52 40	+14 32.2	2 54.0	56 44.9	50.5	15 29.2	13.8	126.680	−4.202	7.4
	5	9 24 36	53 5	+11 38.2	3 36.0	57 35.4	54.0	15 43.0	14.7	139.832	−3.405	8.4
	6	10 17 41	53 47	+ 8 2.2	4 9.1	58 29.4	54.0	15 57.7	14.7	153.369	−2.397	9.4
	7	11 11 28	54 54	+ 3 53.1	4 30.0	59 23.4	49.5	16 12.4	13.5	167.326	−1.219	10.4
	8	12 6 22	56 29	− 0 36.9	4 35.1	60 12.9	39.4	16 25.9	10.7	181.706	+0.068	11.4
	9	13 2 51	58 23	− 5 12.0	4 20.9	60 52.3	24.4	16 36.6	6.7	196.473	+1.383	12.4
	10	14 1 14	60 19	− 9 32.9	3 45.7	61 16.7	5.5	16 43.3	1.5	211.542	+2.626	13.4
	11	15 1 33	61 50	−13 18.6	2 50.9	61 22.2	14.5	16 44.8	4.0	226.777	+3.694	14.4
	12	16 3 23	62 24	−16 9.5	1 42.1	61 7.7	32.5	16 40.8	8.8	242.009	+4.497	15.4
	13	17 5 47	61 42	−17 51.6	0 27.4	60 35.2	46.5	16 32.0	12.7	257.062	+4.978	16.4
	14	18 7 29	59 46	−18 19.0	0 44.0	59 48.7	54.9	16 19.3	14.9	271.783	+5.116	17.4
	15	19 7 15	56 59	−17 35.0	1 45.4	58 53.8	57.9	16 4.4	15.8	286.066	+4.927	18.4
	16	20 4 14	53 55	−15 49.6	2 33.6	57 55.9	56.0	15 48.6	15.3	299.860	+4.455	19.4
	17	20 58 9	51 0	−13 16.0	3 8.2	56 59.9	50.7	15 33.3	13.8	313.167	+3.754	20.4
	18	21 49 9	48 35	−10 7.8	3 30.7	56 9.2	43.2	15 19.5	11.8	326.031	+2.883	21.4
	19	22 37 44	46 48	− 6 37.1	3 42.9	55 26.0	34.4	15 7.7	9.3	338.519	+1.897	22.4
	20	23 24 32	45 43	− 2 54.2	3 46.4	54 51.6	25.5	14 58.4	7.0	350.714	+0.847	23.4
	21	0 10 15	45 18	+ 0 52.2	3 41.9	54 26.1	16.8	14 51.4	4.6	2.699	−0.222	24.4
	22	0 55 33	45 29	+ 4 34.1	3 30.2	54 9.3	8.9	14 46.8	2.4	14.553	−1.268	25.4
	23	1 41 2	46 11	+ 8 4.3	3 11.0	54 0.4	1.7	14 44.4	0.5	26.348	−2.251	26.4
	24	2 27 13	47 14	+11 15.3	2 44.4	53 58.7	4.5	14 43.9	1.3	38.143	−3.136	27.4
	25	3 14 27	48 31	+13 59.7	2 10.3	54 3.2	10.0	14 45.2	2.7	49.986	−3.886	28.4
	26	4 2 58	49 48	+16 10.0	1 29.2	54 13.2	14.9	14 47.9	4.1	61.912	−4.469	29.4
	27	4 52 46	50 55	+17 39.2	0 42.2	54 28.1	19.5	14 52.0	5.3	73.948	−4.859	0.8
	28	5 43 41	51 41	+18 21.4	0 8.8	54 47.6	23.9	14 57.3	6.5	86.113	−5.033	1.8
	29	6 35 22	52 4	+18 12.6	1 1.2	55 11.5	28.5	15 3.8	7.7	98.428	−4.976	2.8
	30	7 27 26	52 8	+17 11.4	1 52.6	55 40.0	33.0	15 11.5	9.0	110.910	−4.682	3.8
	31	8 19 34	52 1	+15 18.8	2 40.1	56 13.0	37.6	15 20.5	10.3	123.585	−4.155	4.8
Juni	1	9 11 35	51 56	+12 38.7	3 21.5	56 50.6	41.5	15 30.8	11.3	136.485	−3.408	5.8
	2	10 3 31	52 7	+ 9 17.2	3 54.7	57 32.1	44.3	15 42.1	12.1	149.647	−2.466	6.8
	3	10 55 38	52 47	+ 5 22.5	4 17.8	58 16.4	44.8	15 54.2	12.2	163.111	−1.367	7.8
	4	11 48 25	53 59	+ 1 4.7	4 27.8	59 1.2	42.3	16 6.4	11.5	176.913	−0.162	8.8
	5	12 42 24	55 46	− 3 23.1	4 22.5	59 43.5	35.6	16 17.9	9.7	191.070	+1.082	9.8
	6	13 38 10	57 57	− 7 45.6	3 59.0	60 19.1	24.8	16 27.6	6.7	205.573	+2.285	10.8
	7	14 36 7	60 8	−11 44.6	3 16.3	60 43.9	10.1	16 34.3	2.8	220.370	+3.358	11.8
	8	15 36 15	61 50	−15 0.9	2 16.2	60 54.0	6.9	16 37.1	1.9	235.363	+4.213	12.8
	9	16 38 5	62 26	−17 17.1	1 4.1	60 47.1	23.7	16 35.2	6.4	250.414	+4.778	13.8
	10	17 40 31	61 39	−18 21.2	0 11.1	60 23.4	38.4	16 28.8	10.5	265.360	+5.012	14.8
	11	18 42 10	59 34	−18 10.1	1 20.8	59 45.0	48.8	16 18.3	13.3	280.049	+4.909	15.8
	12	19 41 44	56 40	−16 49.3	2 18.3	58 56.2	54.2	16 5.0	14.8	294.354	+4.497	16.8
	13	20 38 24		−14 31.0		58 2.0		15 50.2		308.204	+3.830	17.8

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	0h Länge, + 50° Breite: Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Mai 3	8 17 49	136	+15 11.0	− 5.9	56.5	17 32.9	2.09	9 59	2.6	0 21	1.7
4	9 12 16	137	+12 22.9	− 8.0	57.4	18 23.3	2.10	11 4	2.8	0 59	1.5
5	10 7 6	138	+ 8 48.0	− 9.8	58.3	19 14.1	2.13	12 13	2.9	1 33	1.4
6	11 2 39	140	+ 4 35.5	−11.1	59.2	20 5.5	2.16	13 25	3.1	2 5	1.3
7	11 59 21	144	− 0 2.2	−11.9	60.1	20 58.1	2.23	14 40	3.2	2 35	1.2
8	12 57 46	149	− 4 47.9	−11.8	60.8	21 52.5	2.30	15 58	3.3	3 4	1.3
9	13 58 18	154	− 9 20.7	−10.8	61.3	22 48.9	2.40	17 18	3.3	3 36	1.4
10	15 1 2	159	−13 16.8	− 8.8	61.4	23 47.5	2.48	18 38	3.3	4 11	1.5
11	— — —	—	— —	—	—	— —	—	19 56	3.1	4 50	1.8
12	16 5 28	162	−16 14.1	− 5.9	61.1	0 47.8	2.53	21 8	2.8	5 35	2.0
13	17 10 29	162	−17 56.3	− 2.6	60.5	1 48.8	2.53	22 12	2.5	6 27	2.3
14	18 14 37	158	−18 17.4	+ 0.8	59.7	2 48.8	2.46	23 6	2.1	7 26	2.6
15	19 16 25	151	−17 22.2	+ 3.7	58.7	3 46.5	2.34	23 51	1.7	8 30	2.7
16	20 15 0	142	−15 23.0	+ 6.1	57.7	4 41.0	2.20	— —	—	9 37	2.8
17	21 10 9	134	−12 35.2	+ 7.8	56.8	5 32.0	2.06	0 28	1.4	10 43	2.8
18	22 2 11	127	− 9 13.9	+ 8.9	56.0	6 20.0	1.94	0 59	1.2	11 49	2.7
19	22 51 43	121	− 5 32.0	+ 9.5	55.3	7 5.5	1.85	1 27	1.1	12 53	2.6
20	23 39 31	118	− 1 40.4	+ 9.7	54.7	7 49.2	1.80	1 52	1.0	13 56	2.6
21	0 26 23	117	+ 2 12.0	+ 9.6	54.3	8 32.0	1.78	2 16	1.0	14 58	2.6
22	1 13 1	117	+ 5 56.8	+ 9.1	54.1	9 14.6	1.78	2 40	1.0	15 59	2.5
23	2 0 6	119	+ 9 26.3	+ 8.3	54.0	9 57.6	1.81	3 5	1.1	17 0	2.5
24	2 48 7	122	+12 32.3	+ 7.1	54.0	10 41.6	1.86	3 32	1.2	18 0	2.5
25	3 37 26	125	+15 6.6	+ 5.7	54.1	11 26.8	1.92	4 2	1.3	18 59	2.4
26	4 28 11	129	+17 1.0	+ 3.8	54.3	12 13.5	1.97	4 37	1.5	19 56	2.3
27	5 20 17	132	+18 8.2	+ 1.7	54.6	13 1.5	2.03	5 17	1.8	20 49	2.1
28	6 13 25	134	+18 22.7	− 0.5	55.0	13 50.6	2.06	6 2	2.0	21 38	1.9
29	7 7 11	135	+17 41.4	− 2.9	55.5	14 40.3	2.08	6 54	2.3	22 22	1.7
30	8 1 7	135	+16 4.3	− 5.2	56.0	15 30.1	2.08	7 52	2.5	23 1	1.5
31	8 54 58	134	+13 34.7	− 7.3	56.6	16 19.9	2.07	8 54	2.7	23 36	1.4
Juni 1	9 48 42	134	+10 18.5	− 9.0	57.3	17 9.5	2.07	10 1	2.8	— —	—
2	10 42 32	135	+ 6 23.9	−10.4	58.1	17 59.3	2.08	11 10	2.9	0 8	1.3
3	11 36 57	137	+ 2 1.6	−11.3	58.9	18 49.6	2.12	12 22	3.0	0 37	1.2
4	12 32 35	141	− 2 34.9	−11.6	59.6	19 41.2	2.18	13 36	3.1	1 6	1.2
5	13 30 6	147	− 7 9.1	−11.1	60.2	20 34.6	2.28	14 53	3.2	1 35	1.3
6	14 29 59	153	−11 21.4	− 9.8	60.7	21 30.4	2.38	16 10	3.2	2 7	1.4
7	15 32 23	159	−14 50.1	− 7.5	60.9	22 28.7	2.47	17 28	3.2	2 42	1.6
8	16 36 44	162	−17 14.9	− 4.5	60.8	23 28.9	2.53	18 44	3.0	3 23	1.8
9	— — —	—	— —	—	—	— —	—	19 53	2.7	4 11	2.2
10	17 41 49	162	−18 21.8	− 1.1	60.4	0 29.9	2.53	20 53	2.3	5 6	2.5
11	18 45 58	158	−18 7.0	+ 2.3	59.7	1 29.9	2.46	21 43	1.9	6 9	2.7
12	19 47 41	150	−16 37.5	+ 5.1	58.8	2 27.6	2.34	22 25	1.6	7 16	2.8
13	20 46 6	142	−14 7.9	+ 7.3	57.9	3 21.9	2.19	23 0	1.3	8 25	2.9

Tag	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
	0h Welt-Zeit										
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Juni 13	20 38 24	53 31	−14 31.0	3 0.9	58 2.0	54.7	15 50.2	14.9	308.204	+3.830	17.8
14	21 31 55	50 37	−11 30.1	3 29.1	57 7.3	51.2	15 35.3	13.9	321.577	+2.970	18.8
15	22 22 32	48 17	− 8 1.0	3 44.7	56 16.1	44.5	15 21.4	12.1	334.499	+1.982	19.8
16	23 10 49	46 39	− 4 16.3	3 50.0	55 31.6	35.9	15 9.3	9.8	347.028	+0.925	20.8
17	23 57 28	45 43	− 0 26.3	3 46.9	54 55.7	26.3	14 59.5	7.2	359.243	−0.149	21.8
18	0 43 11	45 31	+ 3 20.6	3 36.5	54 29.4	16.5	14 52.3	4.5	11.234	−1.197	22.8
19	1 28 42	45 56	+ 6 57.1	3 18.9	54 12.9	6.9	14 47.8	1.9	23.090	−2.180	23.8
20	2 14 38	46 51	+10 16.0	2 54.6	54 6.0	1.7	14 45.9	0.5	34.895	−3.064	24.8
21	3 1 29	48 8	+13 10.6	2 23.0	54 7.7	9.4	14 46.4	2.6	46.722	−3.816	25.8
22	3 49 37	49 34	+15 33.6	1 44.0	54 17.1	15.6	14 49.0	4.2	58.633	−4.405	26.8
23	4 39 11	50 55	+17 17.6	0 58.5	54 32.7	20.7	14 53.2	5.6	70.674	−4.805	27.8
24	5 30 6	51 59	+18 16.1	0 7.7	54 53.4	24.4	14 58.8	6.7	82.877	−4.991	28.8
25	6 22 5	52 36	+18 23.8	0 45.8	55 17.8	27.1	15 5.5	7.4	95.258	−4.946	0.2
26	7 14 41	52 45	+17 38.0	1 39.0	55 44.9	29.1	15 12.9	7.9	107.826	−4.662	1.2
27	8 7 26	52 32	+15 59.0	2 28.7	56 14.0	30.4	15 20.8	8.3	120.582	−4.142	2.2
28	8 59 58	52 10	+13 30.3	3 11.9	56 44.4	31.5	15 29.1	8.6	133.525	−3.402	3.2
29	9 52 8	51 53	+10 18.4	3 46.2	57 15.9	32.0	15 37.7	8.7	146.660	−2.470	4.2
30	10 44 1	51 58	+ 6 32.2	4 9.9	57 47.9	32.1	15 46.4	8.7	159.996	−1.387	5.2
Juli 1	11 35 59	52 33	+ 2 22.3	4 21.6	58 20.0	31.2	15 55.1	8.5	173.550	−0.208	6.2
2	12 28 32	53 44	− 1 59.3	4 19.6	58 51.2	28.7	16 3.6	7.9	187.337	+1.005	7.2
3	13 22 16	55 27	− 6 18.9	4 2.1	59 19.9	23.9	16 11.5	6.5	201.369	+2.179	8.2
4	14 17 43	57 31	−10 21.0	3 28.4	59 43.8	16.7	16 18.0	4.5	215.641	+3.236	9.2
5	15 15 14	59 31	−13 49.4	2 38.1	60 0.5	6.8	16 22.5	1.9	230.124	+4.102	10.2
6	16 14 45	60 56	−16 27.5	1 34.3	60 7.3	5.2	16 24.4	1.4	244.752	+4.709	11.2
7	17 15 41	61 17	−18 1.8	0 22.5	60 2.1	17.9	16 23.0	4.9	259.430	+5.008	12.2
8	18 16 58	60 20	−18 24.3	0 49.4	59 44.2	29.9	16 18.1	8.2	274.038	+4.980	13.2
9	19 17 18	58 17	−17 34.9	1 53.8	59 14.3	39.6	16 9.9	10.8	288.452	+4.633	14.2
10	20 15 35	55 33	−15 41.1	2 45.0	58 34.7	45.9	15 59.1	12.5	302.564	+4.008	15.2
11	21 11 8	52 42	−12 56.1	3 21.4	57 48.8	48.1	15 46.6	13.1	316.298	+3.163	16.2
12	22 3 50	50 6	− 9 34.7	3 43.2	57 0.7	46.5	15 33.5	12.6	329.619	+2.165	17.2
13	22 53 56	48 3	− 5 51.5	3 52.8	56 14.2	41.7	15 20.9	11.4	342.534	+1.082	18.2
14	23 41 59	46 41	− 1 58.7	3 52.1	55 32.5	34.3	15 9.5	9.3	355.082	−0.027	19.2
15	0 28 40	46 0	+ 1 53.4	3 43.1	54 58.2	25.2	15 0.2	6.9	7.328	−1.109	20.2
16	1 14 40	45 59	+ 5 36.5	3 27.1	54 33.0	15.1	14 53.3	4.1	19.351	−2.124	21.2
17	2 0 39	46 33	+ 9 3.6	3 4.2	54 17.9	5.0	14 49.2	1.4	31.237	−3.035	22.2
18	2 47 12	47 36	+12 7.8	2 34.9	54 12.9	5.0	14 47.8	1.4	43.075	−3.811	23.2
19	3 34 48	48 57	+14 42.7	1 58.5	54 17.9	13.9	14 49.2	3.8	54.947	−4.425	24.2
20	4 23 45	50 27	+16 41.2	1 15.6	54 31.8	21.7	14 53.0	5.9	66.925	−4.850	25.2
21	5 14 12	51 48	+17 56.8	0 26.5	54 53.5	27.5	14 58.9	7.5	79.070	−5.064	26.2
22	6 6 0	52 48	+18 23.3	0 26.7	55 21.0	31.6	15 6.4	8.6	91.427	−5.048	27.2
23	6 58 48	53 22	+17 56.6	1 21.7	55 52.6	33.4	15 15.0	9.1	104.021	−4.789	28.2
24	7 52 10		+16 34.9		56 26.0		15 24.1		116.862	−4.285	29.2

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juni 13	20 46 6	142	−14 7.9	+ 7.3	57.9	3 21.9	2.19	23 0	1.3	8 25	2.9
14	21 41 0	133	−10 55.0	+ 8.7	57.0	4 12.7	2.05	23 30	1.2	9 33	2.8
15	22 32 47	126	− 7 15.0	+ 9.5	56.1	5 0.4	1.93	23 56	1.1	10 40	2.7
16	23 22 8	121	− 3 21.2	+ 9.9	55.4	5 45.7	1.85	— —	—	11 44	2.7
17	0 9 53	118	+ 0 35.7	+ 9.8	54.8	6 29.4	1.80	0 21	1.0	12 48	2.6
18	0 56 51	117	+ 4 27.0	+ 9.4	54.4	7 12.3	1.78	0 45	1.0	13 49	2.6
19	1 43 47	118	+ 8 5.0	+ 8.7	54.2	7 55.2	1.80	1 10	1.1	14 50	2.5
20	2 31 23	120	+11 22.1	+ 7.7	54.1	8 38.7	1.84	1 36	1.1	15 51	2.5
21	3 20 9	124	+14 10.7	+ 6.3	54.2	9 23.4	1.89	2 5	1.3	16 51	2.4
22	4 10 25	128	+16 22.8	+ 4.6	54.4	10 9.6	1.96	2 37	1.5	17 49	2.4
23	5 2 16	131	+17 50.3	+ 2.6	54.7	10 57.4	2.02	3 15	1.7	18 44	2.2
24	5 55 30	134	+18 26.5	+ 0.4	55.1	11 46.5	2.07	3 58	2.0	19 35	2.0
25	6 49 41	136	+18 6.5	− 2.0	55.5	12 36.7	2.10	4 49	2.2	20 22	1.8
26	7 44 16	137	+16 48.9	− 4.4	56.0	13 27.2	2.10	5 45	2.5	21 3	1.6
27	8 38 46	136	+14 36.0	− 6.6	56.5	14 17.6	2.09	6 47	2.7	21 40	1.4
28	9 32 53	135	+11 33.9	− 8.5	57.1	15 7.6	2.08	7 53	2.8	22 12	1.3
29	10 26 38	134	+ 7 51.3	−10.0	57.6	15 57.3	2.07	9 1	2.9	22 42	1.2
30	11 20 19	135	+ 3 39.3	−10.9	58.2	16 46.9	2.07	10 12	2.9	23 11	1.2
Juli 1	12 14 28	137	− 0 49.4	−11.3	58.7	17 37.0	2.11	11 24	3.0	23 39	1.2
2	13 9 45	140	− 5 20.0	−11.1	59.2	18 28.2	2.17	12 37	3.1	— —	—
3	14 6 50	145	− 9 36.3	−10.1	59.7	19 21.2	2.25	13 52	3.1	0 9	1.3
4	15 6 10	151	−13 19.9	− 8.4	60.0	20 16.4	2.35	15 8	3.1	0 41	1.4
5	16 7 48	157	−16 12.3	− 5.9	60.1	21 13.9	2.44	16 22	3.0	1 18	1.6
6	17 11 8	160	−17 57.2	− 2.8	60.0	22 13.1	2.48	17 33	2.8	2 0	1.9
7	18 14 58	159	−18 24.7	+ 0.5	59.7	23 12.9	2.48	18 37	2.5	2 51	2.3
8	— — —	—	— —	—	—	— —	—	19 32	2.1	3 50	2.6
9	19 17 47	155	−17 34.2	+ 3.6	59.2	0 11.6	2.40	20 18	1.8	4 54	2.8
10	20 18 16	148	−15 34.4	+ 6.2	58.5	1 8.0	2.29	20 57	1.5	6 3	2.9
11	21 15 41	139	−12 40.3	+ 8.1	57.7	2 1.3	2.15	21 30	1.3	7 13	2.9
12	22 9 55	132	− 9 9.0	+ 9.3	56.9	2 51.5	2.03	21 59	1.1	8 22	2.8
13	23 1 21	126	− 5 16.5	+ 9.9	56.1	3 38.8	1.92	22 25	1.1	9 28	2.7
14	23 50 38	121	− 1 15.9	+10.0	55.4	4 24.0	1.85	22 49	1.0	10 33	2.7
15	0 38 32	119	+ 2 42.1	+ 9.7	54.9	5 7.9	1.81	23 14	1.0	11 36	2.6
16	1 25 51	118	+ 6 28.8	+ 9.1	54.5	5 51.1	1.80	23 39	1.1	12 38	2.6
17	2 13 19	119	+ 9 56.6	+ 8.2	54.3	6 34.5	1.82	— —	—	13 39	2.5
18	3 1 34	122	+12 58.4	+ 6.9	54.2	7 18.7	1.87	0 7	1.2	14 39	2.5
19	3 51 6	126	+15 26.9	+ 5.4	54.4	8 4.2	1.93	0 38	1.4	15 38	2.4
20	4 42 12	130	+17 14.4	+ 3.5	54.7	8 51.2	1.99	1 13	1.6	16 34	2.3
21	5 34 54	134	+18 13.7	+ 1.4	55.1	9 39.8	2.06	1 54	1.8	17 28	2.1
22	6 29 0	137	+18 18.3	− 1.0	55.6	10 29.9	2.10	2 42	2.1	18 17	1.9
23	7 24 0	138	+17 24.8	− 3.5	56.1	11 20.8	2.13	3 36	2.4	19 1	1.7
24	8 19 22	138	+15 32.9	− 5.8	56.7	12 12.1	2.14	4 36	2.6	19 40	1.5

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Juli 24	7 52 10	53 27	+16 34.9	2 14.5	56 26.0	33.4	15 24.1	9.1	116.862	−4.285	29.2
25	8 45 37	53 13	+14 20.4	3 1.7	56 59.4	31.6	15 33.2	8.6	129.942	−3.547	0.7
26	9 38 50	52 50	+11 18.7	3 40.0	57 31.0	28.5	15 41.8	7.8	143.243	−2.604	1.7
27	10 31 40	52 38	+ 7 38.7	4 6.9	57 59.5	24.8	15 49.6	6.7	156.741	−1.500	2.7
28	11 24 18	52 44	+ 3 31.8	4 20.8	58 24.3	20.8	15 56.3	5.7	170.411	−0.294	3.7
29	12 17 2	53 21	− 0 49.0	4 20.3	58 45.1	16.5	16 2.0	4.5	184.233	+0.944	4.7
30	13 10 23	54 26	− 5 9.3	4 5.1	59 1.6	12.2	16 6.5	3.3	198.190	+2.140	5.7
31	14 4 49	55 55	− 9 14.4	3 34.8	59 13.8	7.5	16 9.8	2.0	212.267	+3.218	6.7
Aug. 1	15 0 44	57 32	−12 49.2	2 50.1	59 21.3	2.4	16 11.8	0.7	226.446	+4.107	7.7
2	15 58 16	58 55	−15 39.3	1 52.8	59 23.7	3.8	16 12.5	1.0	240.699	+4.747	8.7
3	16 57 11	59 38	−17 32.1	0 46.8	59 19.9	10.8	16 11.5	3.0	254.983	+5.094	9.7
4	17 56 49	59 22	−18 18.9	0 22.1	59 9.1	18.3	16 8.5	5.0	269.240	+5.127	10.7
5	18 56 11	58 8	−17 56.8	1 27.4	58 50.8	25.7	16 3.5	7.0	283.399	+4.847	11.7
6	19 54 19	56 6	−16 29.4	2 23.4	58 25.1	32.2	15 56.5	8.7	297.385	+4.278	12.7
7	20 50 25	53 42	−14 6.0	3 6.5	57 52.9	36.9	15 47.8	10.1	311.128	+3.470	13.7
8	21 44 7	51 20	−10 59.5	3 35.5	57 16.0	39.2	15 37.7	10.7	324.576	+2.482	14.7
9	22 35 27	49 15	− 7 24.0	3 51.0	56 36.8	38.7	15 27.0	10.5	337.700	+1.382	15.7
10	23 24 42	47 41	− 3 33.0	3 54.9	55 58.1	35.5	15 16.5	9.7	350.496	+0.237	16.7
11	0 12 23	46 42	+ 0 21.9	3 48.9	55 22.6	29.8	15 6.8	8.1	2.986	−0.896	17.7
12	0 59 5	46 20	+ 4 10.8	3 34.7	54 52.8	22.0	14 58.7	6.0	15.216	−1.965	18.7
13	1 45 25	46 30	+ 7 45.5	3 13.5	54 30.8	12.8	14 52.7	3.5	27.247	−2.930	19.7
14	2 31 55	47 11	+10 59.0	2 45.6	54 18.0	2.7	14 49.2	0.7	39.152	−3.759	20.7
15	3 19 6	48 15	+13 44.6	2 11.5	54 15.3	7.7	14 48.5	2.1	51.010	−4.423	21.7
16	4 7 21	49 35	+15 56.1	1 31.2	54 23.0	17.7	14 50.6	4.8	62.904	−4.899	22.7
17	4 56 56	50 56	+17 27.3	0 45.1	54 40.7	26.8	14 55.4	7.3	74.912	−5.167	23.7
18	5 47 52	52 12	+18 12.4	0 6.1	55 7.5	34.3	15 2.7	9.3	87.108	−5.208	24.7
19	6 40 4	53 8	+18 6.3	1 0.2	55 41.8	39.6	15 12.0	10.8	99.552	−5.007	25.7
20	7 33 12	53 42	+17 6.1	1 54.8	56 21.4	42.1	15 22.8	11.5	112.287	−4.558	26.7
21	8 26 54	53 55	+15 11.3	2 46.0	57 3.5	41.3	15 34.3	11.3	125.338	−3.863	27.7
22	9 20 49	53 53	+12 25.3	3 30.0	57 44.8	37.6	15 45.6	10.2	138.705	−2.943	28.7
23	10 14 42	53 51	+ 8 55.3	4 3.3	58 22.4	31.0	15 55.8	8.4	152.365	−1.835	0.2
24	11 8 33	53 58	+ 4 52.0	4 22.8	58 53.4	22.5	16 4.2	6.2	166.276	−0.597	1.2
25	12 2 31	54 21	+ 0 29.2	4 26.5	59 15.9	13.4	16 10.4	3.6	180.382	+0.696	2.2
26	12 56 52	55 6	− 3 57.3	4 13.9	59 29.3	4.4	16 14.0	1.2	194.618	+1.959	3.2
27	13 51 58	56 9	− 8 11.2	3 45.1	59 33.7	3.4	16 15.2	0.9	208.921	+3.106	4.2
28	14 48 7	57 15	−11 56.3	3 1.7	59 30.3	9.9	16 14.3	2.7	223.232	+4.061	5.2
29	15 45 22	58 12	−14 58.0	2 6.3	59 20.4	15.0	16 11.6	4.1	237.502	+4.761	6.2
30	16 43 34	58 38	−17 4.3	1 2.9	59 5.4	18.8	16 7.5	5.1	251.688	+5.166	7.2
31	17 42 12	58 21	−18 7.2	0 3.4	58 46.6	22.0	16 2.4	6.0	265.754	+5.259	8.2
Sept. 1	18 40 33	57 16	−18 3.8	1 7.3	58 24.6	24.8	15 56.4	6.8	279.670	+5.041	9.2
2	19 37 49	55 35	−16 56.5	2 3.9	57 59.8	27.3	15 49.6	7.4	293.407	+4.536	10.2
3	20 33 24		−14 52.6		57 32.5		15 42.2		306.941	+3.784	11.2

Tag	Obere Kulmination in Greenwich							0^h Länge, + 50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Juli 24	8 19 22	138	+15 32.9	— 5.8	56.7	12 12.1	2.14	4 36	2.6	19 40	1.5
25	9 14 36	138	+12 47.0	— 7.9	57.3	13 3.2	2.13	5 41	2.8	20 15	1.4
26	10 9 28	137	+ 9 15.3	— 9.6	57.8	13 54.0	2.11	6 50	2.9	20 47	1.3
27	11 4 0	136	+ 5 9.4	—10.8	58.3	14 44.5	2.10	8 2	3.0	21 16	1.2
28	11 58 30	137	+ 0 43.2	—11.3	58.6	15 34.9	2.11	9 14	3.0	21 45	1.2
29	12 53 27	138	— 3 48.1	—11.2	58.9	16 25.7	2.14	10 27	3.1	22 14	1.3
30	13 49 28	142	— 8 8.3	—10.4	59.2	17 17.7	2.20	11 41	3.1	22 45	1.4
31	14 47 2	146	—12 0.8	— 8.9	59.3	18 11.2	2.27	12 56	3.1	23 19	1.5
Aug. 1	15 46 25	151	—15 8.9	— 6.7	59.4	19 6.4	2.34	14 8	3.0	23 59	1.8
2	16 47 26	154	—17 17.9	— 4.0	59.4	20 3.4	2.40	15 19	2.8	— —	—
3	17 49 24	155	—18 16.8	— 0.9	59.2	21 1.2	2.42	16 24	2.6	0 45	2.1
4	18 51 14	153	—18 1.3	+ 2.2	58.9	21 59.0	2.38	17 21	2.2	1 38	2.4
5	19 51 45	149	—16 34.6	+ 5.0	58.4	22 55.4	2.31	18 11	1.9	2 38	2.6
6	20 50 1	143	—14 7.2	+ 7.2	57.9	23 49.6	2.20	18 53	1.6	3 44	2.8
7	— — —	—	— —	—	—	— —	—	19 28	1.4	4 53	2.9
8	21 45 37	136	—10 53.7	+ 8.8	57.2	0 41.1	2.09	19 59	1.2	6 2	2.9
9	22 38 35	129	— 7 9.9	+ 9.7	56.6	1 29.9	1.99	20 26	1.1	7 10	2.8
10	23 29 17	124	— 3 10.7	+10.1	55.9	2 16.6	1.90	20 52	1.1	8 17	2.7
11	0 18 19	121	+ 0 51.3	+10.0	55.3	3 1.5	1.85	21 17	1.0	9 21	2.7
12	1 6 21	119	+ 4 45.6	+ 9.5	54.8	3 45.5	1.83	21 42	1.1	10 24	2.6
13	1 54 4	119	+ 8 23.5	+ 8.6	54.5	4 29.2	1.82	22 9	1.2	11 26	2.5
14	2 42 6	121	+11 37.6	+ 7.5	54.3	5 13.1	1.85	22 38	1.3	12 27	2.5
15	3 30 59	124	+14 20.7	+ 6.1	54.3	5 58.0	1.89	23 11	1.5	13 26	2.4
16	4 21 7	127	+16 26.0	+ 4.3	54.4	6 44.0	1.95	23 49	1.7	14 23	2.3
17	5 12 45	131	+17 46.7	+ 2.3	54.8	7 31.6	2.02	— —	—	15 17	2.2
18	6 5 53	135	+18 16.3	+ 0.1	55.3	8 20.7	2.07	0 33	2.0	16 8	2.0
19	7 0 18	137	+17 49.8	— 2.3	55.9	9 11.0	2.12	1 24	2.3	16 54	1.8
20	7 55 37	139	+16 24.6	— 4.8	56.6	10 2.2	2.15	2 22	2.5	17 36	1.6
21	8 51 22	140	+14 2.0	— 7.1	57.4	10 53.9	2.16	3 26	2.7	18 13	1.5
22	9 47 14	140	+10 47.3	— 9.1	58.1	11 45.7	2.15	4 34	2.9	18 47	1.3
23	10 43 2	139	+ 6 50.6	—10.6	58.7	12 37.4	2.15	5 46	3.0	19 18	1.3
24	11 38 50	140	+ 2 25.8	—11.4	59.1	13 29.1	2.16	6 59	3.1	19 48	1.2
25	12 34 57	141	— 2 10.8	—11.5	59.4	14 21.1	2.18	8 14	3.1	20 17	1.3
26	13 31 44	143	— 6 41.0	—10.9	59.6	15 13.8	2.22	9 30	3.1	20 48	1.3
27	14 29 34	146	—10 46.6	— 9.5	59.5	16 7.6	2.26	10 45	3.1	21 22	1.5
28	15 28 40	149	—14 10.6	— 7.4	59.4	17 2.6	2.32	11 59	3.0	22 0	1.7
29	16 28 54	152	—16 38.3	— 4.8	59.2	17 58.7	2.36	13 10	2.9	22 43	2.0
30	17 29 48	152	—17 59.4	— 1.9	58.8	18 55.5	2.37	14 16	2.6	23 33	2.2
31	18 30 34	151	—18 9.1	+ 1.1	58.5	19 52.2	2.35	15 15	2.3	— —	—
Sept. 1	19 30 16	147	—17 9.0	+ 3.9	58.1	20 47.8	2.28	16 6	2.0	0 30	2.5
2	20 28 9	142	—15 6.7	+ 6.2	57.6	21 41.6	2.19	16 50	1.7	1 33	2.7
3	21 23 47	136	—12 14.0	+ 8.1	57.1	22 33.1	2.10	17 27	1.4	2 39	2.8

Tag	0h Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Sept. 3	20 33 24	53 33	−14 52.6	2 49.9	57 32.5	29.5	15 42.2	8.0	306.941	+3.784	11.2
4	21 26 57	51 28	−12 2.7	3 23.6	57 3.0	31.0	15 34.2	8.5	320.250	+2.838	12.2
5	22 18 25	49 37	− 8 39.1	3 44.5	56 32.0	31.5	15 25.7	8.6	333.319	+1.757	13.2
6	23 8 2	48 9	− 4 54.6	3 53.5	56 0.5	30.5	15 17.1	8.3	346.140	+0.606	14.2
7	23 56 11	47 8	− 1 1.1	3 51.8	55 30.0	27.9	15 8.8	7.6	358.718	−0.554	15.2
8	0 43 19	46 38	+ 2 50.7	3 40.9	55 2.1	23.5	15 1.2	6.4	11.068	−1.668	16.2
9	1 29 57	46 36	+ 6 31.6	3 21.8	54 38.6	17.3	14 54.8	4.7	23.221	−2.688	17.2
10	2 16 33	47 1	+ 9 53.4	2 55.7	54 21.3	9.5	14 50.1	2.6	35.217	−3.577	18.2
11	3 3 34	47 47	+12 49.1	2 23.1	54 11.8	0.5	14 47.5	0.1	47.111	−4.303	19.2
12	3 51 21	48 47	+15 12.2	1 44.8	54 11.3	9.5	14 47.4	2.6	58.966	−4.842	20.2
13	4 40 8	49 54	+16 57.0	1 1.1	54 20.8	19.7	14 50.0	5.3	70.852	−5.176	21.2
14	5 30 2	51 2	+17 58.1	0 12.9	54 40.5	29.7	14 55.3	8.1	82.847	−5.290	22.2
15	6 21 4	52 2	+18 11.0	0 38.9	55 10.2	38.8	15 3.4	10.6	95.025	−5.170	23.2
16	7 13 6	52 48	+17 32.1	1 32.1	55 49.0	45.9	15 14.0	12.5	107.460	−4.808	24.2
17	8 5 54	53 23	+16 0.0	2 24.5	56 34.9	50.2	15 26.5	13.7	120.217	−4.204	25.2
18	8 59 17	53 49	+13 35.5	3 12.4	57 25.1	50.8	15 40.2	13.8	133.341	−3.365	26.2
19	9 53 6	54 12	+10 23.1	3 52.4	58 15.9	47.1	15 54.0	12.9	146.858	−2.316	27.2
20	10 47 18	54 43	+ 6 30.7	4 20.3	59 3.0	39.0	16 6.9	10.6	160.762	−1.103	28.2
21	11 42 1	55 25	+ 2 10.4	4 32.8	59 42.0	27.2	16 17.5	7.4	175.011	+0.207	29.2
22	12 37 26	56 24	− 2 22.4	4 27.1	60 9.2	13.1	16 24.9	3.6	189.533	+1.528	0.8
23	13 33 50	57 29	− 6 49.5	4 2.8	60 22.3	1.3	16 28.5	0.4	204.228	+2.763	1.8
24	14 31 19	58 34	−10 52.3	3 20.8	60 21.0	14.2	16 28.1	3.9	218.979	+3.819	2.8
25	15 29 53	59 19	−14 13.1	2 24.8	60 6.8	24.4	16 24.2	6.6	233.672	+4.619	3.8
26	16 29 12	59 27	−16 37.9	1 19.8	59 42.4	31.2	16 17.6	8.5	248.210	+5.112	4.8
27	17 28 39	58 49	−17 57.7	0 12.0	59 11.2	35.0	16 9.1	9.5	262.517	+5.280	5.8
28	18 27 28	57 24	−18 9.7	0 52.9	58 36.2	36.0	15 59.6	9.9	276.549	+5.127	6.8
29	19 24 52	55 29	−17 16.8	1 50.3	58 0.2	35.4	15 49.7	9.6	290.288	+4.683	7.8
30	20 20 21	53 17	−15 26.5	2 37.4	57 24.8	33.9	15 40.1	9.2	303.738	+3.988	8.8
Okt. 1	21 13 38	51 11	−12 49.1	3 13.0	56 50.9	31.8	15 30.9	8.7	316.915	+3.095	9.8
2	22 4 49	49 22	− 9 36.1	3 36.9	56 19.1	29.5	15 22.2	8.0	329.841	+2.059	10.8
3	22 54 11	47 57	− 5 59.2	3 49.5	55 49.6	27.1	15 14.2	7.4	342.542	+0.939	11.8
4	23 42 8	47 1	− 2 9.7	3 51.9	55 22.5	24.3	15 6.8	6.6	355.042	−0.208	12.8
5	0 29 9	46 34	+ 1 42.2	3 44.7	54 58.2	21.1	15 0.2	5.8	7.364	−1.327	13.8
6	1 15 43	46 33	+ 5 26.9	3 28.8	54 37.1	17.0	14 54.4	4.6	19.531	−2.371	14.8
7	2 2 16	46 54	+ 8 55.7	3 5.1	54 20.1	11.8	14 49.8	3.2	31.568	−3.296	15.8
8	2 49 10	47 34	+12 0.8	2 34.2	54 8.3	5.6	14 46.6	1.6	43.503	−4.067	16.8
9	3 36 44	48 22	+14 35.0	1 57.4	54 2.7	1.9	14 45.0	0.6	55.372	−4.658	17.8
10	4 25 6	49 15	+16 32.4	1 15.1	54 4.6	10.4	14 45.6	2.8	67.219	−5.048	18.8
11	5 14 21	50 7	+17 47.5	0 28.6	54 15.0	19.8	14 48.4	5.4	79.096	−5.222	19.8
12	6 4 28	50 51	+18 16.1	0 20.9	54 34.8	29.6	14 53.8	8.0	91.064	−5.172	20.8
13	6 55 19	51 27	+17 55.2	1 11.8	55 4.4	39.2	15 1.8	10.7	103.194	−4.893	21.8
14	7 46 46		+16 43.4		55 43.6		15 12.5		115.559	−4.384	22.8

Tag	Obere Kulmination in Greenwich							0^h Länge, + 50° Breite			
	AR.	Änderung für 1^h westl. Länge	Dekl.	Änderung für 1^h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1^h westl. Länge	Aufgang	Änderung für 1^h westl. Länge	Untergang	Änderung für 1^h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Sept. 3	21 23 47	136	−12 14.0	+ 8.1	57.1	22 33.1	2.10	17 27	1.4	2 39	2.8
4	22 17 6	131	− 8 44.8	+ 9.3	56.5	23 22.4	2.01	17 59	1.3	3 47	2.8
5	— — —	—	— —	—	—	— —	—	18 27	1.1	4 54	2.8
6	23 8 22	126	− 4 53.1	+ 9.9	56.0	0 9.6	1.93	18 54	1.1	6 1	2.7
7	23 58 0	123	− 0 52.1	+10.1	55.5	0 55.1	1.88	19 19	1.0	7 6	2.7
8	0 46 33	121	+ 3 6.5	+ 9.7	55.0	1 39.6	1.84	19 44	1.1	8 10	2.6
9	1 34 35	120	+ 6 52.7	+ 9.0	54.6	2 23.6	1.83	20 10	1.1	9 13	2.6
10	2 22 39	121	+10 17.9	+ 8.0	54.3	3 7.6	1.84	20 39	1.2	10 14	2.5
11	3 11 13	122	+13 14.5	+ 6.7	54.2	3 52.1	1.87	21 10	1.4	11 14	2.4
12	4 0 40	125	+15 35.6	+ 5.0	54.2	4 37.5	1.91	21 46	1.6	12 12	2.4
13	4 51 15	128	+17 14.8	+ 3.2	54.4	5 24.0	1.96	22 27	1.8	13 7	2.2
14	5 43 7	131	+18 6.2	+ 1.1	54.8	6 11.8	2.02	23 14	2.1	13 59	2.1
15	6 36 11	134	+18 5.1	− 1.2	55.3	7 0.8	2.07	— —	—	14 46	1.9
16	7 30 17	136	+17 7.9	− 3.6	56.1	7 50.8	2.10	0 7	2.4	15 29	1.7
17	8 25 11	138	+15 13.5	− 5.9	56.9	8 41.6	2.13	1 7	2.6	16 8	1.5
18	9 20 39	139	+12 24.3	− 8.1	57.8	9 33.0	2.15	2 13	2.8	16 43	1.4
19	10 16 34	140	+ 8 46.5	−10.0	58.6	10 24.8	2.17	3 23	3.0	17 15	1.3
20	11 12 57	142	+ 4 30.9	−11.2	59.4	11 17.1	2.19	4 37	3.1	17 46	1.3
21	12 10 1	144	− 0 7.5	−11.8	60.0	12 10.1	2.23	5 52	3.2	18 16	1.3
22	13 8 0	146	− 4 49.7	−11.6	60.3	13 4.0	2.27	7 10	3.2	18 47	1.3
23	14 7 11	150	− 9 15.1	−10.4	60.4	13 59.1	2.32	8 28	3.2	19 21	1.5
24	15 7 38	153	−13 3.1	− 8.5	60.2	14 55.4	2.37	9 45	3.2	19 58	1.7
25	16 9 5	154	−15 55.8	− 5.9	59.9	15 52.8	2.40	10 59	3.0	20 41	1.9
26	17 10 58	154	−17 41.0	− 2.9	59.3	16 50.6	2.40	12 9	2.7	21 30	2.2
27	18 12 22	152	−18 13.0	+ 0.2	58.8	17 47.9	2.37	13 11	2.4	22 25	2.4
28	19 12 25	148	−17 33.6	+ 3.0	58.1	18 43.8	2.29	14 4	2.1	23 26	2.6
29	20 10 24	142	−15 50.4	+ 5.5	57.5	19 37.7	2.20	14 50	1.7	— —	—
30	21 5 58	136	−13 14.6	+ 7.4	56.9	20 29.2	2.10	15 28	1.5	0 30	2.7
Okt. 1	21 59 10	130	− 9 59.2	+ 8.8	56.4	21 18.3	2.00	16 1	1.3	1 37	2.8
2	22 50 18	126	− 6 17.1	+ 9.6	55.9	22 5.4	1.93	16 30	1.2	2 44	2.8
3	23 39 51	122	− 2 20.8	+10.0	55.4	22 50.9	1.87	16 57	1.1	3 50	2.7
4	0 28 21	120	+ 1 38.3	+ 9.9	55.0	23 35.3	1.84	17 22	1.0	4 55	2.7
5	— — —	—	— —	—	—	— —	—	17 47	1.1	5 59	2.6
6	1 16 20	120	+ 5 29.8	+ 9.4	54.6	0 19.2	1.83	18 12	1.1	7 2	2.6
7	2 4 19	120	+ 9 4.4	+ 8.5	54.3	1 3.2	1.83	18 40	1.2	8 4	2.6
8	2 52 42	122	+12 13.4	+ 7.2	54.1	1 47.5	1.86	19 10	1.3	9 4	2.5
9	3 41 48	124	+14 49.3	+ 5.7	54.0	2 32.5	1.90	19 44	1.5	10 3	2.4
10	4 31 50	126	+16 45.3	+ 3.9	54.1	3 18.5	1.93	20 22	1.7	10 59	2.3
11	5 22 50	129	+17 55.7	+ 1.9	54.3	4 5.4	1.98	21 6	2.0	11 51	2.1
12	6 14 46	131	+18 15.9	− 0.3	54.7	4 53.3	2.01	21 56	2.2	12 40	1.9
13	7 7 29	133	+17 42.8	− 2.5	55.2	5 41.9	2.04	22 52	2.4	13 24	1.7
14	8 0 50	134	+16 15.1	− 4.8	55.9	6 31.2	2.06	23 54	2.7	14 3	1.6

Tag	Scheinbare Rektaszension (h m s)	Diff. (m s)	Scheinbare Deklination (° ′)	Diff. (° ′)	Parallaxe (′ ″)	Diff. (″)	Halbmesser (′ ″)	Diff. (″)	Länge (°)	Breite (°)	Alter (d)
1941											
Okt. 14	7 46 46	51 57	+16 43.4	2 2.5	55 43.6	47.6	15 12.5	13.0	115.559	−4.384	22.8
15	8 38 43	52 25	+14 40.9	2 50.5	56 31.2	54.2	15 25.5	14.8	128.234	−3.651	23.8
16	9 31 8	53 0	+11 50.4	3 33.5	57 25.4	57.2	15 40.3	15.5	141.287	−2.710	24.8
17	10 24 8	53 48	+ 8 16.9	4 7.9	58 22.6	55.8	15 55.8	15.3	154.770	−1.592	25.8
18	11 17 56	54 56	+ 4 9.0	4 29.8	59 18.4	49.1	16 11.1	13.3	168.709	−0.345	26.8
19	12 12 52	56 24	− 0 20.8	4 35.5	60 7.5	37.1	16 24.4	10.1	183.089	+0.961	27.8
20	13 9 16	58 6	− 4 56.3	4 21.7	60 44.6	20.5	16 34.5	5.6	197.850	+2.235	28.8
21	14 7 22	59 48	− 9 18.0	3 47.1	61 5.1	1.9	16 40.1	0.5	212.880	+3.375	0.4
22	15 7 10	61 7	−13 5.1	2 53.8	61 7.0	16.3	16 40.6	4.4	228.029	+4.286	1.4
23	16 8 17	61 37	−15 58.9	1 46.8	60 50.7	31.5	16 36.2	8.6	243.132	+4.895	2.4
24	17 9 54	61 2	−17 45.7	0 34.1	60 19.2	42.1	16 27.6	11.5	258.031	+5.163	3.4
25	18 10 56	59 25	−18 19.8	0 36.5	59 37.1	47.9	16 16.1	13.0	272.606	+5.090	4.4
26	19 10 21	57 0	−17 43.3	1 38.7	58 49.2	49.3	16 3.1	13.4	286.784	+4.704	5.4
27	20 7 21	54 18	−16 4.6	2 29.0	57 59.9	47.2	15 49.7	12.9	300.542	+4.054	6.4
28	21 1 39	51 42	−13 35.6	3 6.6	57 12.7	43.1	15 36.8	11.7	313.895	+3.201	7.4
29	21 53 21	49 29	−10 29.0	3 32.2	56 29.6	37.7	15 25.1	10.3	326.885	+2.203	8.4
30	22 42 50	47 47	− 6 56.8	3 46.7	55 51.9	32.1	15 14.8	8.8	339.568	+1.119	9.4
31	23 30 37	46 43	− 3 10.1	3 51.3	55 19.8	26.4	15 6.0	7.2	352.005	+0.004	10.4
Nov. 1	0 17 20	46 12	+ 0 41.2	3 47.0	54 53.4	21.1	14 58.8	5.7	4.249	−1.092	11.4
2	1 3 32	46 12	+ 4 28.2	3 34.2	54 32.3	16.1	14 53.1	4.4	16.351	−2.123	12.4
3	1 49 44	46 37	+ 8 2.4	3 13.4	54 16.2	11.3	14 48.7	3.1	28.349	−3.048	13.4
4	2 36 21	47 19	+11 15.8	2 45.1	54 4.9	6.4	14 45.6	1.7	40.275	−3.831	14.4
5	3 23 40	48 12	+14 0.9	2 9.8	53 58.5	1.1	14 43.9	0.3	52.157	−4.443	15.4
6	4 11 52	49 4	+16 10.7	1 28.7	53 57.4	4.9	14 43.6	1.3	64.018	−4.860	16.4
7	5 0 56	49 49	+17 39.4	0 42.9	54 2.3	11.5	14 44.9	3.2	75.887	−5.067	17.4
8	5 50 45	50 21	+18 22.3	0 5.8	54 13.8	19.0	14 48.1	5.1	87.796	−5.055	18.4
9	6 41 6	50 40	+18 16.5	0 55.7	54 32.8	27.3	14 53.2	7.5	99.787	−4.821	19.4
10	7 31 46	50 49	+17 20.8	1 44.9	55 0.1	35.8	15 0.7	9.7	111.910	−4.370	20.4
11	8 22 35	50 57	+15 35.9	2 31.5	55 35.9	44.1	15 10.4	12.0	124.229	−3.710	21.4
12	9 13 32	51 12	+13 4.4	3 13.7	56 20.0	51.4	15 22.4	14.1	136.814	−2.857	22.4
13	10 4 44	51 47	+ 9 50.7	3 49.7	57 11.4	56.5	15 36.5	15.3	149.737	−1.838	23.4
14	10 56 31	52 48	+ 6 1.0	4 16.5	58 7.9	57.9	15 51.8	15.8	163.066	−0.690	24.4
15	11 49 19	54 21	+ 1 44.5	4 31.0	59 5.8	54.7	16 7.6	14.9	176.855	+0.536	25.4
16	12 43 40	56 26	− 2 46.5	4 29.5	60 0.5	45.6	16 22.5	12.4	191.123	+1.768	26.4
17	13 40 6	58 51	− 7 16.0	4 8.2	60 46.1	30.8	16 34.9	8.4	205.842	+2.919	27.4
18	14 38 57	61 11	−11 24.2	3 25.9	61 16.9	11.8	16 43.3	3.3	220.927	+3.894	28.4
19	15 40 8	62 52	−14 50.1	2 24.1	61 28.7	8.9	16 46.6	2.5	236.233	+4.604	0.0
20	16 43 0	63 23	−17 14.2	1 9.6	61 19.8	28.3	16 44.1	7.7	251.574	+4.984	1.0
21	17 46 23	62 24	−18 23.8	0 8.0	60 51.5	43.5	16 36.4	11.8	266.756	+5.009	2.0
22	18 48 47	60 7	−18 15.8	1 19.6	60 8.0	53.2	16 24.6	14.5	281.611	+4.691	3.0
23	19 48 54	57 4	−16 56.2	2 18.3	59 14.8	57.2	16 10.1	15.6	296.024	+4.081	4.0
24	20 45 58		−14 37.9		58 17.6		15 54.5		309.944	+3.245	5.0

0ʰ Welt-Zeit

Tag	Obere Kulmination in Greenwich: AR.	Änderung für 1ʰ westl. Länge	Dekl.	Änderung für 1ʰ westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1ʰ westl. Länge	0ʰ Länge, + 50° Breite: Aufgang	Änderung für 1ʰ westl. Länge	Untergang	Änderung für 1ʰ westl. Länge
1941	h m s	s	° '	'	'	h m	m	h m	m	h m	m
Okt. 14	8 0 50	134	+16 15.1	— 4.8	55.9	6 31.2	2.06	23 54	2.7	14 3	1.6
15	8 54 43	135	+13 53.6	— 7.0	56.8	7 21.0	2.09	— —	—	14 39	1.4
16	9 49 9	137	+10 42.0	— 8.9	57.7	8 11.3	2.11	1 0	2.9	15 12	1.3
17	10 44 17	139	+ 6 47.0	—10.6	58.7	9 2.4	2.15	2 11	3.0	15 43	1.3
18	11 40 28	142	+ 2 19.5	—11.6	59.7	9 54.5	2.20	3 25	3.1	16 13	1.3
19	12 38 3	146	— 2 25.2	—12.0	60.4	10 48.0	2.27	4 42	3.2	16 43	1.3
20	13 37 25	151	— 7 7.1	—11.4	60.9	11 43.3	2.34	6 1	3.3	17 16	1.4
21	14 38 45	156	—11 23.6	— 9.8	61.1	12 40.5	2.43	7 21	3.3	17 52	1.6
22	15 41 49	159	—14 51.6	— 7.4	61.0	13 39.5	2.48	8 39	3.2	18 33	1.9
23	16 45 55	161	—17 12.6	— 4.3	60.6	14 39.4	2.50	9 54	3.0	19 21	2.1
24	17 49 51	159	—18 16.2	— 1.0	59.9	15 39.3	2.47	11 2	2.6	20 16	2.4
25	18 52 19	153	—18 1.6	+ 2.2	59.1	16 37.6	2.38	12 0	2.2	21 17	2.6
26	19 52 19	146	—16 36.6	+ 4.8	58.2	17 33.5	2.27	12 49	1.9	22 22	2.7
27	20 49 19	139	—14 13.9	+ 6.9	57.4	18 26.5	2.14	13 30	1.6	23 29	2.8
28	21 43 22	132	—11 8.1	+ 8.4	56.6	19 16.4	2.03	14 5	1.3	— —	—
29	22 34 51	126	— 7 32.9	+ 9.4	56.0	20 3.8	1.93	14 34	1.2	0 36	2.8
30	23 24 22	122	— 3 40.6	+ 9.9	55.4	20 49.3	1.86	15 1	1.1	1 42	2.7
31	0 12 37	120	+ 0 17.7	+ 9.9	54.9	21 33.5	1.83	15 27	1.0	2 47	2.7
Nov. 1	1 0 14	119	+ 4 12.3	+ 9.6	54.6	22 17.0	1.81	15 51	1.0	3 50	2.6
2	1 47 49	119	+ 7 53.9	+ 8.8	54.3	23 0.5	1.82	16 16	1.1	4 53	2.6
3	2 35 50	121	+11 13.9	+ 7.8	54.1	23 44.5	1.85	16 42	1.2	5 55	2.6
4	— — —	—	— —	—	—	— —	—	17 11	1.3	6 56	2.5
5	3 24 39	123	+14 3.9	+ 6.4	54.0	0 29.3	1.88	17 43	1.4	7 56	2.4
6	4 14 24	126	+16 16.4	+ 4.6	54.0	1 14.9	1.92	18 20	1.6	8 53	2.3
7	5 5 7	128	+17 44.8	+ 2.7	54.0	2 1.6	1.96	19 2	1.9	9 47	2.2
8	5 56 38	130	+18 24.2	+ 0.6	54.3	2 49.0	1.99	19 49	2.1	10 37	2.0
9	6 48 43	131	+18 11.3	— 1.6	54.6	3 37.0	2.01	20 43	2.3	11 22	1.8
10	7 41 7	131	+17 5.1	— 3.9	55.1	4 25.4	2.02	21 41	2.5	12 3	1.6
11	8 33 41	132	+15 6.8	— 6.0	55.7	5 13.8	2.02	22 44	2.7	12 39	1.4
12	9 26 23	132	+12 19.4	— 7.9	56.5	6 2.5	2.03	23 51	2.9	13 12	1.3
13	10 19 27	133	+ 8 48.4	— 9.6	57.5	6 51.5	2.05	— —	—	13 42	1.2
14	11 13 17	136	+ 4 41.3	—10.9	58.4	7 41.2	2.10	1 1	3.0	14 11	1.2
15	12 8 26	140	+ 0 9.0	—11.7	59.4	8 32.3	2.17	2 14	3.1	14 40	1.2
16	13 5 33	146	— 4 33.5	—11.7	60.3	9 25.3	2.26	3 30	3.2	15 10	1.3
17	14 5 11	152	— 9 6.8	—10.9	61.0	10 20.8	2.37	4 49	3.3	15 43	1.5
18	15 7 32	159	—13 7.9	— 9.0	61.4	11 19.1	2.48	6 9	3.3	16 22	1.7
19	16 12 17	164	—16 12.8	— 6.2	61.4	12 19.7	2.56	7 27	3.2	17 7	2.0
20	17 18 19	165	—18 2.6	— 2.8	61.1	13 21.7	2.58	8 41	2.9	17 59	2.3
21	18 24 0	162	—18 28.1	+ 0.7	60.4	14 23.2	2.53	9 47	2.5	19 0	2.6
22	19 27 38	155	—17 32.3	+ 3.9	59.6	15 22.8	2.42	10 43	2.1	20 6	2.8
23	20 28 3	147	—15 27.7	+ 6.4	58.6	16 19.1	2.27	11 29	1.8	21 15	2.9
24	21 24 51	138	—12 31.2	+ 8.2	57.6	17 11.8	2.13	12 7	1.5	22 24	2.9

Tag	0h Welt-Zeit										
	Scheinbare Rektaszension		Scheinbare Deklination		Parallaxe		Halbmesser		Länge	Breite	Alter
1941	h m s	m s	° ′	° ′	′ ″	″	′ ″	″	°	°	d
Nov. 24	20 45 58	53 50	−14 37.9	3 1.8	58 17.6	56.3	15 54.5	15.4	309.944	+3.245	5.0
25	21 39 48	50 57	−11 36.1	3 30.9	57 21.3	51.7	15 39.1	14.0	323.375	+2.253	6.0
26	22 30 45	48 37	− 8 5.2	3 47.3	56 29.6	44.8	15 25.1	12.2	336.364	+1.175	7.0
27	23 19 22	47 2	− 4 17.9	3 53.2	55 44.8	36.8	15 12.9	10.1	348.980	+0.069	8.0
28	0 6 24	46 8	− 0 24.7	3 50.2	55 8.0	28.6	15 2.8	7.8	1.304	−1.014	9.0
29	0 52 32	45 53	+ 3 25.5	3 39.2	54 39.4	20.7	14 55.0	5.6	13.414	−2.031	10.0
30	1 38 25	46 12	+ 7 4.7	3 20.8	54 18.7	13.4	14 49.4	3.7	25.384	−2.943	11.0
Dez. 1	2 24 37	46 56	+10 25.5	2 55.0	54 5.3	6.9	14 45.7	1.8	37.273	−3.718	12.0
2	3 11 33	47 54	+13 20.5	2 22.2	53 58.4	1.1	14 43.9	0.3	49.130	−4.328	13.0
3	3 59 27	48 57	+15 42.7	1 42.7	53 57.3	4.1	14 43.6	1.1	60.990	−4.749	14.0
4	4 48 24	49 52	+17 25.4	0 57.7	54 1.4	9.1	14 44.7	2.5	72.882	−4.963	15.0
5	5 38 16	50 29	+18 23.1	0 9.0	54 10.5	14.1	14 47.2	3.8	84.825	−4.961	16.0
6	6 28 45	50 47	+18 32.1	0 41.4	54 24.6	19.3	14 51.0	5.3	96.838	−4.738	17.0
7	7 19 32	50 44	+17 50.7	1 31.0	54 43.9	25.0	14 56.3	6.8	108.944	−4.301	18.0
8	8 10 16	50 30	+16 19.7	2 17.6	55 8.9	31.1	15 3.1	8.4	121.172	−3.661	19.0
9	9 0 46	50 18	+14 2.1	2 59.4	55 40.0	37.4	15 11.5	10.2	133.563	−2.839	20.0
10	9 51 4	50 19	+11 2.7	3 34.8	56 17.4	43.3	15 21.7	11.8	146.166	−1.864	21.0
11	10 41 23	50 46	+ 7 27.9	4 2.0	57 0.7	48.3	15 33.5	13.2	159.041	−0.772	22.0
12	11 32 9	51 49	+ 3 25.9	4 19.4	57 49.0	51.1	15 46.7	13.9	172.251	+0.388	23.0
13	12 23 58	53 31	− 0 53.5	4 24.4	58 40.1	50.5	16 0.6	13.8	185.853	+1.561	24.0
14	13 17 29	55 51	− 5 17.9	4 13.9	59 30.6	45.5	16 14.4	12.4	199.884	+2.676	25.0
15	14 13 20	58 35	− 9 31.8	3 45.0	60 16.1	35.4	16 26.8	9.6	214.348	+3.654	26.0
16	15 11 55	61 14	−13 16.8	2 56.2	60 51.5	20.2	16 36.4	5.5	229.198	+4.412	27.0
17	16 13 9	63 9	−16 13.0	1 49.9	61 11.7	1.7	16 41.9	0.5	244.327	+4.877	28.0
18	17 16 18	63 45	−18 2.9	0 32.5	61 13.4	17.7	16 42.4	4.8	259.580	+5.001	29.0
19	18 20 3	62 43	−18 35.4	0 46.1	60 55.7	35.3	16 37.6	9.7	274.769	+4.772	0.6
20	19 22 46	60 16	−17 49.3	1 55.7	60 20.4	48.5	16 27.9	13.2	289.712	+4.217	1.6
21	20 23 2	57 4	−15 53.6	2 50.2	59 31.9	56.2	16 14.7	15.3	304.267	+3.398	2.6
22	21 20 6	53 45	−13 3.4	3 27.7	58 35.7	58.2	15 59.4	15.8	318.346	+2.392	3.6
23	22 13 51	50 48	− 9 35.7	3 49.3	57 37.5	55.7	15 43.6	15.2	331.925	+1.281	4.6
24	23 4 39	48 31	− 5 46.4	3 57.9	56 41.8	49.5	15 28.4	13.5	345.027	+0.137	5.6
25	23 53 10	47 0	− 1 48.5	3 56.2	55 52.3	41.1	15 14.9	11.2	357.714	−0.979	6.6
26	0 40 10	46 14	+ 2 7.7	3 46.1	55 11.2	31.6	15 3.7	8.6	10.065	−2.020	7.6
27	1 26 24	46 8	+ 5 53.8	3 28.7	54 39.6	21.8	14 55.1	6.0	22.167	−2.948	8.6
28	2 12 32	46 35	+ 9 22.5	3 4.5	54 17.8	12.5	14 49.1	3.4	34.107	−3.733	9.6
29	2 59 7	47 29	+12 27.0	2 33.9	54 5.3	3.9	14 45.7	1.0	45.963	−4.350	10.6
30	3 46 36	48 35	+15 0.9	1 56.7	54 1.4	3.5	14 44.7	0.9	57.802	−4.779	11.6
31	4 35 11	49 41	+16 57.6	1 13.4	54 4.9	9.8	14 45.6	2.7	69.677	−5.001	12.6
32	5 24 52		+18 11.0		54 14.7		14 48.3		81.628	−5.006	13.6

Tag	Obere Kulmination in Greenwich							0h Länge, + 50° Breite			
	AR.	Änderung für 1h westl. Länge	Dekl.	Änderung für 1h westl. Länge	Parallaxe	Zeit des Durchgangs	Änderung für 1h westl. Länge	Aufgang	Änderung für 1h westl. Länge	Untergang	Änderung für 1h westl. Länge
1941	h m s	s	° ′	′	′	h m	m	h m	m	h m	m
Nov. 24	21 24 51	138	−12 31.2	+ 8.2	57.6	17 11.8	2.13	12 7	1.5	22 24	2.9
25	22 18 17	130	− 8 59.7	+ 9.3	56.7	18 1.2	2.00	12 39	1.2	23 32	2.8
26	23 8 59	124	− 5 8.0	+ 9.9	55.9	18 47.8	1.90	13 7	1.1	— —	—
27	23 57 45	120	− 1 8.1	+10.0	55.2	19 32.5	1.84	13 32	1.0	0 38	2.7
28	0 45 23	118	+ 2 50.2	+ 9.8	54.7	20 16.1	1.80	13 57	1.0	1 42	2.7
29	1 32 39	118	+ 6 38.0	+ 9.2	54.3	20 59.3	1.80	14 21	1.0	2 45	2.6
30	2 20 12	120	+10 7.3	+ 8.2	54.1	21 42.7	1.83	14 47	1.1	3 47	2.6
Dez. 1	3 8 30	122	+13 10.1	+ 7.0	54.0	22 27.0	1.87	15 14	1.2	4 48	2.5
2	3 57 51	125	+15 38.6	+ 5.4	54.0	23 12.3	1.91	15 45	1.4	5 49	2.5
3	4 48 22	128	+17 25.3	+ 3.5	54.0	23 58.7	1.95	16 20	1.6	6 47	2.4
4	— — —	—	— —	—	—	— —	—	17 0	1.8	7 43	2.2
5	5 39 52	130	+18 24.2	+ 1.4	54.2	0 46.2	2.00	17 45	2.0	8 35	2.1
6	6 32 5	131	+18 31.0	− 0.8	54.4	1 34.3	2.01	18 37	2.2	9 22	1.9
7	7 24 34	131	+17 43.9	− 3.1	54.8	2 22.7	2.02	19 33	2.4	10 4	1.7
8	8 16 59	131	+16 4.0	− 5.2	55.2	3 11.0	2.01	20 34	2.6	10 42	1.5
9	9 9 8	130	+13 35.0	− 7.2	55.8	3 59.1	2.00	21 38	2.7	11 15	1.3
10	10 1 5	130	+10 22.5	− 8.8	56.4	4 47.0	1.99	22 46	2.9	11 45	1.2
11	10 53 8	131	+ 6 33.8	−10.2	57.2	5 35.0	2.01	23 55	2.9	12 13	1.2
12	11 45 49	133	+ 2 18.1	−11.1	58.0	6 23.6	2.05	— —	—	12 41	1.2
13	12 39 52	137	− 2 13.2	−11.4	58.9	7 13.5	2.13	1 7	3.1	13 9	1.2
14	13 36 2	144	− 6 45.5	−11.1	59.8	8 5.6	2.23	2 22	3.2	13 40	1.3
15	14 35 0	151	−11 0.7	−10.0	60.5	9 0.5	2.35	3 39	3.2	14 13	1.5
16	15 37 4	159	−14 37.0	− 7.9	61.0	9 58.4	2.48	4 57	3.2	14 53	1.8
17	16 41 53	165	−17 12.4	− 4.9	61.2	10 59.2	2.57	6 13	3.1	15 41	2.2
18	17 48 16	166	−18 29.2	− 1.4	61.1	12 1.4	2.60	7 24	2.8	16 37	2.5
19	18 54 24	163	−18 19.7	+ 2.2	60.6	13 3.5	2.55	8 27	2.4	17 42	2.8
20	19 58 26	156	−16 49.1	+ 5.3	59.9	14 3.4	2.43	9 20	2.0	18 52	3.0
21	20 59 6	147	−14 12.5	+ 7.6	59.0	14 59.9	2.28	10 3	1.7	20 3	3.0
22	21 56 1	138	−10 49.1	+ 9.2	58.0	15 52.8	2.13	10 39	1.4	21 14	2.9
23	22 49 28	130	− 6 57.6	+10.0	57.0	16 42.2	2.00	11 10	1.2	22 24	2.8
24	23 40 10	124	− 2 53.3	+10.3	56.1	17 28.8	1.90	11 37	1.1	23 30	2.7
25	0 28 58	120	+ 1 11.5	+10.1	55.3	18 13.5	1.84	12 2	1.0	— —	—
26	1 16 42	119	+ 5 7.4	+ 9.5	54.8	18 57.2	1.81	12 27	1.0	0 35	2.7
27	2 4 12	119	+ 8 46.5	+ 8.7	54.4	19 40.6	1.82	12 52	1.1	1 38	2.6
28	2 52 6	121	+12 1.2	+ 7.5	54.1	20 24.5	1.84	13 18	1.2	2 40	2.5
29	3 40 55	123	+14 44.5	+ 6.0	54.0	21 9.2	1.89	13 47	1.3	3 40	2.5
30	4 30 55	127	+16 49.1	+ 4.3	54.1	21 55.1	1.94	14 20	1.5	4 39	2.4
31	5 22 10	130	+18 8.2	+ 2.3	54.2	22 42.3	1.99	14 58	1.7	5 36	2.3

Phasen des Mondes

1941		Welt-Zeit h	m	
Jan.	5	13	40	Erstes Viertel
	13	11	4	Vollmond
	20	10	1	Letztes Viertel
	27	11	3	Neumond
Febr.	4	11	42	Erstes Viertel
	12	0	26	Vollmond
	18	18	7	Letztes Viertel
	26	3	2	Neumond
März	6	7	43	Erstes Viertel
	13	11	47	Vollmond
	20	2	51	Letztes Viertel
	27	20	14	Neumond
April	5	0	12	Erstes Viertel
	11	21	15	Vollmond
	18	13	3	Letztes Viertel
	26	13	23	Neumond
Mai	4	12	49	Erstes Viertel
	11	5	15	Vollmond
	18	1	17	Letztes Viertel
	26	5	18	Neumond
Juni	2	21	56	Erstes Viertel
	9	12	34	Vollmond
	16	15	45	Letztes Viertel
	24	19	22	Neumond
Juli	2	4	24	Erstes Viertel

1941		Welt-Zeit h	m	
Juli	8	20	17	Vollmond
	16	8	7	Letztes Viertel
	24	7	39	Neumond
	31	9	19	Erstes Viertel
Aug.	7	5	38	Vollmond
	15	1	40	Letztes Viertel
	22	18	34	Neumond
	29	14	4	Erstes Viertel
Sept.	5	17	36	Vollmond
	13	19	31	Letztes Viertel
	21	4	38	Neumond
	27	20	9	Erstes Viertel
Okt.	5	8	32	Vollmond
	13	12	52	Letztes Viertel
	20	14	20	Neumond
	27	5	4	Erstes Viertel
Nov.	4	2	0	Vollmond
	12	4	53	Letztes Viertel
	19	0	4	Neumond
	25	17	52	Erstes Viertel
Dez.	3	20	51	Vollmond
	11	18	48	Letztes Viertel
	18	10	18	Neumond
	25	10	43	Erstes Viertel
	33	15	42	Vollmond

Mond in Erdnähe

1941		Welt-Zeit h
Jan.	19	8
Febr.	14	20
März	14	22
April	12	8
Mai	10	19
Juni	8	2
Juli	6	2
Aug.	1	22
Aug.	27	1
Sept.	23	10
Okt.	21	14
Nov.	19	2
Dez.	17	14

Mond in Erdferne

1941		Welt-Zeit h
Jan.	6	5
Febr.	3	2
März	2	21
März	30	10
April	26	13
Mai	23	18
Juni	20	7
Juli	18	0
Aug.	14	18
Sept.	11	13
Okt.	9	6
Nov.	5	17
Dez.	2	17
Dez.	30	0

Tag		Scheinbare Rektaszension (0ʰ Welt-Zeit)	Diff.	Scheinbare Deklination (0ʰ Welt-Zeit)	Diff.	Δ (0ʰ Welt-Zeit)	Diff.	Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	18 11 0.81	6 55.21	−24 35 27.5	3 0.1	1.428 474	2 858	11 35.4
	1	18 17 56.02	6 56.81	24 38 27.6	1 38.7	1.431 332	2 313	11 38.4
	2	18 24 52.83	6 58.32	24 40 6.3	0 16.2	1.433 645	1 766	11 41.4
	3	18 31 51.15	6 59.73	24 40 22.5	1 7.4	1.435 411	1 216	11 44.4
	4	18 38 50.88	7 1.03	24 39 15.1	2 32.0	1.436 627	664	11 47.5
	5	18 45 51.91	7 2.23	24 36 43.1	3 57.8	1.437 291	108	11 50.6
	6	18 52 54.14	7 3.31	−24 32 45.3	5 24.6	1.437 399	453	11 53.7
	7	18 59 57.45	7 4.28	24 27 20.7	6 52.2	1.436 946	1 020	11 56.8
	8	19 7 1.73	7 5.13	24 20 28.5	8 20.8	1.435 926	1 596	12 0.0
	9	19 14 6.86	7 5.88	24 12 7.7	9 50.3	1.434 330	2 181	12 3.1
	10	19 21 12.74	7 6.48	24 2 17.4	11 20.5	1.432 149	2 776	12 6.3
	11	19 28 19.22	7 6.97	23 50 56.9	12 51.5	1.429 373	3 383	12 9.5
	12	19 35 26.19	7 7.32	−23 38 5.4	14 23.3	1.425 990	4 003	12 12.7
	13	19 42 33.51	7 7.53	23 23 42.1	15 55.5	1.421 987	4 638	12 15.9
	14	19 49 41.04	7 7.59	23 7 46.6	17 28.4	1.417 349	5 291	12 19.0
	15	19 56 48.63	7 7.50	22 50 18.2	19 1.7	1.412 058	5 962	12 22.2
	16	20 3 56.13	7 7.22	22 31 16.5	20 35.3	1.406 096	6 652	12 25.4
	17	20 11 3.35	7 6.77	22 10 41.2	22 9.1	1.399 444	7 364	12 28.6
	18	20 18 10.12	7 6.12	−21 48 32.1	23 42.9	1.392 080	8 100	12 31.8
	19	20 25 16.24	7 5.23	21 24 49.2	25 16.6	1.383 980	8 861	12 34.9
	20	20 32 21.47	7 4.11	20 59 32.6	26 49.8	1.375 119	9 648	12 38.1
	21	20 39 25.58	7 2.71	20 32 42.8	28 22.5	1.365 471	10 463	12 41.2
	22	20 46 28.29	7 1.00	20 4 20.3	29 54.2	1.355 008	11 308	12 44.3
	23	20 53 29.29	6 58.92	19 34 26.1	31 24.6	1.343 700	12 182	12 47.4
	24	21 0 28.21	6 56.46	−19 3 1.5	32 53.3	1.331 518	13 086	12 50.4
	25	21 7 24.67	6 53.52	18 30 8.2	34 19.8	1.318 432	14 022	12 53.4
	26	21 14 18.19	6 50.06	17 55 48.4	35 43.4	1.304 410	14 985	12 56.3
	27	21 21 8.25	6 46.00	17 20 5.0	37 3.4	1.289 425	15 978	12 59.2
	28	21 27 54.25	6 41.25	16 43 1.6	38 19.2	1.273 447	16 996	13 1.9
	29	21 34 35.50	6 35.69	16 4 42.4	39 29.7	1.256 451	18 034	13 4.6
	30	21 41 11.19	6 29.22	−15 25 12.7	40 33.7	1.238 417	19 088	13 7.2
	31	21 47 40.41	6 21.71	14 44 39.0	41 30.3	1.219 329	20 151	13 9.7
Febr.	1	21 54 2.12	6 13.02	14 3 8.7	42 17.8	1.199 178	21 214	13 12.1
	2	22 0 15.14	6 2.97	13 20 50.9	42 54.8	1.177 964	22 264	13 14.3
	3	22 6 18.11	5 51.41	12 37 56.1	43 19.5	1.155 700	23 287	13 16.3
	4	22 12 9.52	5 38.17	11 54 36.6	43 30.2	1.132 413	24 268	13 18.1
	5	22 17 47.69	5 23.06	−11 11 6.4	43 25.1	1.108 145	25 186	13 19.6
	6	22 23 10.75	5 5.93	10 27 41.3	43 2.0	1.082 959	26 022	13 20.9
	7	22 28 16.68	4 46.60	9 44 39.3	42 19.2	1.056 937	26 752	13 21.9
	8	22 33 3.28	4 24.98	9 2 20.1	41 14.7	1.030 185	27 352	13 22.5
	9	22 37 28.26	4 0.96	8 21 5.4	39 47.1	1.002 833	27 798	13 22.8
	10	22 41 29.22		− 7 41 18.3		0.975 035		13 22.6

Merkur 1941

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	22 41 29.22	3 34.50	− 7 41 18.3	37 54.9	0.975 035	28 067	13 22.6
	11	22 45 3.72	3 5.66	7 3 23.4	35 37.4	0.946 968	28 139	13 22.0
	12	22 48 9.38	2 34.54	6 27 46.0	32 54.0	0.918 829	27 997	13 20.9
	13	22 50 43.92	2 1.35	5 54 52.0	29 45.3	0.890 832	27 624	13 19.2
	14	22 52 45.27	1 26.40	5 25 6.7	26 11.9	0.863 208	27 017	13 17.0
	15	22 54 11.67	0 50.11	4 58 54.8	22 15.5	0.836 191	26 169	13 14.1
	16	22 55 1.78	0 13.03	− 4 36 39.3	17 58.8	0.810 022	25 087	13 10.7
	17	22 55 14.81	0 24.22	4 18 40.5	13 25.5	0.784 935	23 777	13 6.6
	18	22 54 50.59	1 0.89	4 5 15.0	8 39.7	0.761 158	22 255	13 2.0
	19	22 53 49.70	1 36.14	3 56 35.3	3 46.8	0.738 903	20 541	12 56.7
	20	22 52 13.56	2 9.13	3 52 48.5	1 6.7	0.718 362	18 661	12 50.9
	21	22 50 4.43	2 38.95	3 53 55.2	5 54.2	0.699 701	16 642	12 44.6
	22	22 47 25.48	3 4.80	− 3 59 49.4	10 28.6	0.683 059	14 517	12 37.8
	23	22 44 20.68	3 25.93	4 10 18.0	14 42.7	0.668 542	12 321	12 30.6
	24	22 40 54.75	3 41.76	4 25 0.7	18 29.9	0.656 221	10 087	12 23.1
	25	22 37 12.99	3 51.92	4 43 30.6	21 44.6	0.646 134	7 854	12 15.4
	26	22 33 21.07	3 56.27	5 5 15.2	24 22.9	0.638 280	5 652	12 7.6
	27	22 29 24.80	3 54.91	5 29 38.1	26 22.2	0.632 628	3 514	11 59.7
	28	22 25 29.89	3 48.15	− 5 56 0.3	27 41.9	0.629 114	1 467	11 52.0
März	1	22 21 41.74	3 36.55	6 23 42.2	28 23.2	0.627 647	468	11 44.4
	2	22 18 5.19	3 20.72	6 52 5.4	28 28.7	0.628 115	2 273	11 37.0
	3	22 14 44.47	3 1.42	7 20 34.1	28 2.1	0.630 388	3 939	11 29.9
	4	22 11 43.05	2 39.43	7 48 36.2	27 7.6	0.634 327	5 458	11 23.1
	5	22 9 3.62	2 15.50	8 15 43.8	25 50.1	0.639 785	6 828	11 16.7
	6	22 6 48.12	1 50.30	− 8 41 33.9	24 14.1	0.646 613	8 054	11 10.7
	7	22 4 57.82	1 24.47	9 5 48.0	22 23.7	0.654 667	9 139	11 5.2
	8	22 3 33.35	0 58.53	9 28 11.7	20 22.8	0.663 806	10 092	11 0.0
	9	22 2 34.82	0 32.86	9 48 34.5	18 14.9	0.673 898	10 922	10 55.3
	10	22 2 1.96	0 7.84	10 6 49.4	16 2.5	0.684 820	11 638	10 51.0
	11	22 1 54.12	0 16.32	10 22 51.9	13 47.6	0.696 458	12 252	10 47.2
	12	22 2 10.44	0 39.45	−10 36 39.5	11 32.2	0.708 710	12 771	10 43.7
	13	22 2 49.89	1 1.42	10 48 11.7	9 17.5	0.721 481	13 207	10 40.6
	14	22 3 51.31	1 22.18	10 57 29.2	7 4.4	0.734 688	13 570	10 37.8
	15	22 5 13.49	1 41.69	11 4 33.6	4 53.5	0.748 258	13 867	10 35.4
	16	22 6 55.18	2 0.00	11 9 27.1	2 45.6	0.762 125	14 106	10 33.3
	17	22 8 55.18	2 17.09	11 12 12.7	0 40.6	0.776 231	14 295	10 31.5
	18	22 11 12.27	2 33.03	−11 12 53.3	1 21.2	0.790 526	14 440	10 29.9
	19	22 13 45.30	2 47.86	11 11 32.1	3 19.7	0.804 966	14 545	10 28.6
	20	22 16 33.16	3 1.66	11 8 12.4	5 14.9	0.819 511	14 619	10 27.6
	21	22 19 34.82	3 14.49	11 2 57.5	7 6.8	0.834 130	14 664	10 26.8
	22	22 22 49.31	3 26.39	10 55 50.7	8 55.7	0.848 794	14 684	10 26.2
	23	22 26 15.70		−10 46 55.0		0.863 478		10 25.7

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
März	23	22 26 15.70	3 37.48	−10 46 55.0	10 41.5	0.863 478	14 682	10 25.7
	24	22 29 53.18	3 47.78	10 36 13.5	12 24.4	0.878 160	14 663	10 25.5
	25	22 33 40.96	3 57.38	10 23 49.1	14 4.5	0.892 823	14 630	10 25.4
	26	22 37 38.34	4 6.34	10 9 44.6	15 42.0	0.907 453	14 581	10 25.5
	27	22 41 44.68	4 14.72	9 54 2.6	17 17.0	0.922 034	14 522	10 25.7
	28	22 45 59.40	4 22.55	9 36 45.6	18 49.6	0.936 556	14 454	10 26.1
	29	22 50 21.95	4 29.93	− 9 17 56.0	20 19.9	0.951 010	14 377	10 26.6
	30	22 54 51.88	4 36.88	8 57 36.1	21 47.9	0.965 387	14 292	10 27.2
	31	22 59 28.76	4 43.44	8 35 48.2	23 14.0	0.979 679	14 201	10 27.9
April	1	23 4 12.20	4 49.68	8 12 34.2	24 38.2	0.993 880	14 105	10 28.7
	2	23 9 1.88	4 55.63	7 47 56.0	26 0.4	1.007 985	14 001	10 29.7
	3	23 13 57.51	5 1.33	7 21 55.6	27 20.7	1.021 986	13 894	10 30.7
	4	23 18 58.84	5 6.82	− 6 54 34.9	28 39.4	1.035 880	13 780	10 31.8
	5	23 24 5.66	5 12.14	6 25 55.5	29 56.4	1.049 660	13 662	10 33.0
	6	23 29 17.80	5 17.30	5 55 59.1	31 11.7	1.063 322	13 536	10 34.3
	7	23 34 35.10	5 22.37	5 24 47.4	32 25.5	1.076 858	13 405	10 35.7
	8	23 39 57.47	5 27.36	4 52 21.9	33 37.6	1.090 263	13 266	10 37.2
	9	23 45 24.83	5 32.29	4 18 44.3	34 48.2	1.103 529	13 119	10 38.7
	10	23 50 57.12	5 37.22	− 3 43 56.1	35 57.4	1.116 648	12 963	10 40.4
	11	23 56 34.34	5 42.16	3 7 58.7	37 5.0	1.129 611	12 796	10 42.1
	12	0 2 16.50	5 47.12	2 30 53.7	38 11.1	1.142 407	12 617	10 43.9
	13	0 8 3.62	5 52.14	1 52 42.6	39 15.5	1.155 024	12 423	10 45.8
	14	0 13 55.76	5 57.26	1 13 27.1	40 18.3	1.167 447	12 213	10 47.7
	15	0 19 53.02	6 2.47	− 0 33 8.8	41 19.4	1.179 660	11 985	10 49.8
	16	0 25 55.49	6 7.81	+ 0 8 10.6	42 18.6	1.191 645	11 735	10 51.9
	17	0 32 3.30	6 13.30	0 50 29.2	43 16.1	1.203 380	11 462	10 54.1
	18	0 38 16.60	6 18.96	1 33 45.3	44 11.4	1.214 842	11 162	10 56.5
	19	0 44 35.56	6 24.79	2 17 56.7	45 4.4	1.226 004	10 832	10 58.9
	20	0 51 0.35	6 30.83	3 3 1.1	45 55.1	1.236 836	10 469	11 1.4
	21	0 57 31.18	6 37.08	3 48 56.2	46 42.9	1.247 305	10 066	11 4.1
	22	1 4 8.26	6 43.54	+ 4 35 39.1	47 26.8	1.257 371	9 623	11 6.8
	23	1 10 51.80	6 50.25	5 23 6.9	48 9.3	1.266 994	9 133	11 9.6
	24	1 17 42.05	6 57.17	6 11 16.2	48 47.1	1.276 127	8 593	11 12.6
	25	1 24 39.22	7 4.31	7 0 3.3	49 20.7	1.284 720	7 996	11 15.6
	26	1 31 43.53	7 11.68	7 49 24.0	49 49.5	1.292 716	7 339	11 18.8
	27	1 38 55.21	7 19.23	8 39 13.5	50 12.9	1.300 055	6 618	11 22.1
	28	1 46 14.44	7 26.94	+ 9 29 26.4	50 30.4	1.306 673	5 826	11 25.6
	29	1 53 41.38	7 34.78	10 19 56.8	50 41.0	1.312 499	4 963	11 29.2
	30	2 1 16.16	7 42.67	11 10 37.8	50 44.2	1.317 462	4 024	11 32.9
Mai	1	2 8 58.83	7 50.56	12 1 22.0	50 39.1	1.321 486	3 007	11 36.7
	2	2 16 49.39	7 58.37	12 52 1.1	50 24.7	1.324 493	1 915	11 40.7
	3	2 24 47.76		+13 42 25.8		1.326 408		11 44.8

Tag	0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Mai 3	2 24 47.76	8 5.99	+13 42 25.8	50 0.2	1.326 408	747	11 44.8
4	2 32 53.75	8 13.30	14 32 26.0	49 25.0	1.327 155	490	11 49.0
5	2 41 7.05	8 20.19	15 21 51.0	48 38.3	1.326 665	1 791	11 53.4
6	2 49 27.24	8 26.52	16 10 29.3	47 39.6	1.324 874	3 144	11 57.9
7	2 57 53.76	8 32.16	16 58 8.9	46 28.5	1.321 730	4 539	12 2.4
8	3 6 25.92	8 36.97	17 44 37.4	45 4.9	1.317 191	5 959	12 7.1
9	3 15 2.89	8 40.82	+18 29 42.3	43 29.1	1.311 232	7 388	12 11.8
10	3 23 43.71	8 43.59	19 13 11.4	41 41.5	1.303 844	8 806	12 16.6
11	3 32 27.30	8 45.19	19 54 52.9	39 42.8	1.295 038	10 195	12 21.4
12	3 41 12.49	8 45.56	20 34 35.7	37 34.3	1.284 843	11 539	12 26.2
13	3 49 58.05	8 44.64	21 12 10.0	35 16.9	1.273 304	12 816	12 31.0
14	3 58 42.69	8 42.42	21 47 26.9	32 52.6	1.260 488	14 014	12 35.8
15	4 7 25.11	8 38.93	+22 20 19.5	30 22.7	1.246 474	15 121	12 40.6
16	4 16 4.04	8 34.19	22 50 42.2	27 48.7	1.231 353	16 126	12 45.3
17	4 24 38.23	8 28.26	23 18 30.9	25 12.5	1.215 227	17 023	12 49.9
18	4 33 6.49	8 21.22	23 43 43.4	22 35.6	1.198 204	17 812	12 54.4
19	4 41 27.71	8 13.13	24 6 19.0	19 59.3	1.180 392	18 489	12 58.7
20	4 49 40.84	8 4.11	24 26 18.3	17 24.8	1.161 903	19 059	13 2.9
21	4 57 44.95	7 54.22	+24 43 43.1	14 53.3	1.142 844	19 525	13 7.0
22	5 5 39.17	7 43.57	24 58 36.4	12 25.7	1.123 319	19 894	13 10.8
23	5 13 22.74	7 32.22	25 11 2.1	10 2.8	1.103 425	20 172	13 14.5
24	5 20 54.96	7 20.24	25 21 4.9	7 44.9	1.083 253	20 365	13 18.0
25	5 28 15.20	7 7.71	25 28 49.8	5 32.8	1.062 888	20 482	13 21.3
26	5 35 22.91	6 54.67	25 34 22.6	3 26.6	1.042 406	20 529	13 24.4
27	5 42 17.58	6 41.17	+25 37 49.2	1 26.5	1.021 877	20 513	13 27.2
28	5 48 58.75	6 27.24	25 39 15.7	0 27.2	1.001 364	20 441	13 29.8
29	5 55 25.99	6 12.93	25 38 48.5	2 14.3	0.980 923	20 319	13 32.2
30	6 1 38.92	5 58.24	25 36 34.2	3 55.2	0.960 604	20 150	13 34.4
31	6 7 37.16	5 43.19	25 32 39.0	5 29.5	0.940 454	19 942	13 36.3
Juni 1	6 13 20.35	5 27.82	25 27 9.5	6 57.5	0.920 512	19 697	13 37.9
2	6 18 48.17	5 12.10	+25 20 12.0	8 19.1	0.900 815	19 418	13 39.3
3	6 24 0.27	4 56.05	25 11 52.9	9 34.5	0.881 397	19 108	13 40.4
4	6 28 56.32	4 39.66	25 2 18.4	10 43.6	0.862 289	18 772	13 41.2
5	6 33 35.98	4 22.95	24 51 34.8	11 46.6	0.843 517	18 407	13 41.8
6	6 37 58.93	4 5.90	24 39 48.2	12 43.8	0.825 110	18 019	13 42.1
7	6 42 4.83	3 48.52	24 27 4.4	13 34.7	0.807 091	17 605	13 42.0
8	6 45 53.35	3 30.80	+24 13 29.7	14 19.9	0.789 486	17 169	13 41.7
9	6 49 24.15	3 12.77	23 59 9.8	14 59.3	0.772 317	16 708	13 41.1
10	6 52 36.92	2 54.40	23 44 10.5	15 32.9	0.755 609	16 224	13 40.2
11	6 55 31.32	2 35.73	23 28 37.6	16 0.7	0.739 385	15 717	13 39.0
12	6 58 7.05	2 16.75	23 12 36.9	16 23.0	0.723 668	15 183	13 37.5
13	7 0 23.80		+22 56 13.9		0.708 485		13 35.7

Tag		0h Welt-Zeit: Scheinbare Rektaszension h m s	Diff. m s	0h Welt-Zeit: Scheinbare Deklination ° ′ ″	Diff. ′ ″	0h Welt-Zeit: Δ	Diff.	Obere Kulmination in Greenwich h m
1941								
Juni	13	7 0 23.80	1 57.51	+22 56 13.9	16 39.6	0.708 485	14 626	13 35.7
	14	7 2 21.31	1 38.05	22 39 34.3	16 50.5	0.693 859	14 041	13 33.5
	15	7 3 59.36	1 18.39	22 22 43.8	16 56.0	0.679 818	13 428	13 31.0
	16	7 5 17.75	0 58.62	22 5 47.8	16 55.9	0.666 390	12 785	13 28.2
	17	7 6 16.37	0 38.81	21 48 51.9	16 50.2	0.653 605	12 112	13 25.1
	18	7 6 55.18	0 19.05	21 32 1.7	16 39.1	0.641 493	11 406	13 21.6
	19	7 7 14.23	0 0.55	+21 15 22.6	16 22.5	0.630 087	10 666	13 17.8
	20	7 7 13.68	0 19.81	20 59 0.1	16 0.4	0.619 421	9 891	13 13.7
	21	7 6 53.87	0 38.61	20 42 59.7	15 33.0	0.609 530	9 078	13 9.2
	22	7 6 15.26	0 56.76	20 27 26.7	15 0.2	0.600 452	8 228	13 4.5
	23	7 5 18.50	1 14.07	20 12 26.5	14 22.3	0.592 224	7 340	12 59.5
	24	7 4 4.43	1 30.30	19 58 4.2	13 39.2	0.584 884	6 414	12 54.2
	25	7 2 34.13	1 45.25	+19 44 25.0	12 50.9	0.578 470	5 450	12 48.6
	26	7 0 48.88	1 58.69	19 31 34.1	11 57.9	0.573 020	4 448	12 42.8
	27	6 58 50.19	2 10.38	19 19 36.2	11 0.3	0.568 572	3 413	12 36.8
	28	6 56 39.81	2 20.11	19 8 35.9	9 58.3	0.565 159	2 344	12 30.6
	29	6 54 19.70	2 27.70	18 58 37.6	8 52.2	0.562 815	1 245	12 24.3
	30	6 51 52.00	2 32.95	18 49 45.4	7 42.4	0.561 570	118	12 17.9
Juli	1	6 49 19.05	2 35.76	+18 42 3.0	6 29.6	0.561 452	1 031	12 11.4
	2	6 46 43.29	2 36.03	18 35 33.4	5 14.0	0.562 483	2 198	12 4.9
	3	6 44 7.26	2 33.72	18 30 19.4	3 56.2	0.564 681	3 379	11 58.4
	4	6 41 33.54	2 28.83	18 26 23.2	2 37.1	0.568 060	4 569	11 51.9
	5	6 39 4.71	2 21.45	18 23 46.1	1 17.3	0.572 629	5 763	11 45.6
	6	6 36 43.26	2 11.63	18 22 28.8	0 2.4	0.578 392	6 954	11 39.4
	7	6 34 31.63	1 59.56	+18 22 31.2	1 21.3	0.585 346	8 138	11 33.4
	8	6 32 32.07	1 45.41	18 23 52.5	2 38.5	0.593 484	9 313	11 27.6
	9	6 30 46.66	1 29.34	18 26 31.0	3 53.1	0.602 797	10 472	11 22.0
	10	6 29 17.32	1 11.60	18 30 24.1	5 4.6	0.613 269	11 611	11 16.7
	11	6 28 5.72	0 52.42	18 35 28.7	6 12.0	0.624 880	12 727	11 11.8
	12	6 27 13.30	0 31.99	18 41 40.7	7 14.4	0.637 607	13 818	11 7.1
	13	6 26 41.31	0 10.51	+18 48 55.1	8 11.4	0.651 425	14 880	11 2.8
	14	6 26 30.80	0 11.80	18 57 6.5	9 2.1	0.666 305	15 911	10 58.9
	15	6 26 42.60	0 34.77	19 6 8.6	9 46.2	0.682 216	16 906	10 55.3
	16	6 27 17.37	0 58.25	19 15 54.8	10 22.9	0.699 122	17 867	10 52.1
	17	6 28 15.62	1 22.11	19 26 17.7	10 51.6	0.716 989	18 788	10 49.3
	18	6 29 37.73	1 46.19	19 37 9.3	11 12.0	0.735 777	19 667	10 47.0
	19	6 31 23.92	2 10.41	+19 48 21.3	11 23.5	0.755 444	20 501	10 45.0
	20	6 33 34.33	2 34.68	19 59 44.8	11 25.7	0.775 945	21 285	10 43.4
	21	6 36 9.01	2 58.92	20 11 10.5	11 18.1	0.797 230	22 017	10 42.2
	22	6 39 7.93	3 23.03	20 22 28.6	11 0.4	0.819 247	22 689	10 41.4
	23	6 42 30.96	3 46.95	20 33 29.0	10 32.1	0.841 936	23 298	10 41.0
	24	6 46 17.91		+20 44 1.1		0.865 234		10 41.1

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Juli	24	6 46 17.91	4 10.60	+20 44 1.1	9 53.0	0.865 234	23 834	10 41.1
	25	6 50 28.51	4 33.91	20 53 54.1	9 2.6	0.889 068	24 294	10 41.5
	26	6 55 2.42	4 56.78	21 2 56.7	8 0.9	0.913 362	24 666	10 42.3
	27	6 59 59.20	5 19.12	21 10 57.6	6 47.5	0.938 028	24 943	10 43.4
	28	7 5 18.32	5 40.80	21 17 45.1	5 22.4	0.962 971	25 118	10 45.0
	29	7 10 59.12	6 1.73	21 23 7.5	3 45.8	0.988 089	25 179	10 46.9
	30	7 17 0.85	6 21.74	+21 26 53.3	1 58.0	1.013 268	25 120	10 49.1
	31	7 23 22.59	6 40.68	21 28 51.3	0 0.8	1.038 388	24 932	10 51.7
Aug.	1	7 30 3.27	6 58.41	21 28 50.5	2 9.5	1.063 320	24 612	10 54.6
	2	7 37 1.68	7 14.76	21 26 41.0	4 27.4	1.087 932	24 153	10 57.7
	3	7 44 16.44	7 29.56	21 22 13.6	6 53.0	1.112 085	23 557	11 1.1
	4	7 51 46.00	7 42.70	21 15 20.6	9 25.1	1.135 642	22 825	11 4.8
	5	7 59 28.70	7 54.04	+21 5 55.5	12 1.7	1.158 467	21 964	11 8.7
	6	8 7 22.74	8 3.49	20 53 53.8	14 41.0	1.180 431	20 985	11 12.7
	7	8 15 26.23	8 11.01	20 39 12.8	17 21.1	1.201 416	19 897	11 16.9
	8	8 23 37.24	8 16.60	20 21 51.7	20 0.0	1.221 313	18 720	11 21.2
	9	8 31 53.84	8 20.31	20 1 51.7	22 35.5	1.240 033	17 469	11 25.6
	10	8 40 14.15	8 22.19	19 39 16.2	25 6.3	1.257 502	16 166	11 30.0
	11	8 48 36.34	8 22.38	+19 14 9.9	27 30.6	1.273 668	14 827	11 34.5
	12	8 56 58.72	8 21.03	18 46 39.3	29 47.1	1.288 495	13 472	11 38.9
	13	9 5 19.75	8 18.31	18 16 52.2	31 54.9	1.301 967	12 120	11 43.3
	14	9 13 38.06	8 14.39	17 44 57.3	33 53.4	1.314 087	10 783	11 47.7
	15	9 21 52.45	8 9.47	17 11 3.9	35 42.1	1.324 870	9 477	11 51.9
	16	9 30 1.92	8 3.73	16 35 21.8	37 20.9	1.334 347	8 211	11 56.1
	17	9 38 5.65	7 57.33	+15 58 0.9	38 49.8	1.342 558	6 992	12 0.2
	18	9 46 2.98	7 50.44	15 19 11.1	40 9.2	1.349 550	5 826	12 4.2
	19	9 53 53.42	7 43.19	14 39 1.9	41 19.3	1.355 376	4 717	12 8.0
	20	10 1 36.61	7 35.71	13 57 42.6	42 20.7	1.360 093	3 666	12 11.7
	21	10 9 12.32	7 28.11	13 15 21.9	43 13.8	1.363 759	2 674	12 15.3
	22	10 16 40.43	7 20.46	12 32 8.1	43 59.1	1.366 433	1 739	12 18.8
	23	10 24 0.89	7 12.85	+11 48 9.0	44 37.4	1.368 172	859	12 22.1
	24	10 31 13.74	7 5.33	11 3 31.6	45 9.0	1.369 031	33	12 25.3
	25	10 38 19.07	6 57.95	10 18 22.6	45 34.7	1.369 064	743	12 28.4
	26	10 45 17.02	6 50.75	9 32 47.9	45 54.6	1.368 321	1 472	12 31.4
	27	10 52 7.77	6 43.74	8 46 53.3	46 9.5	1.366 849	2 157	12 34.3
	28	10 58 51.51	6 36.95	8 0 43.8	46 19.8	1.364 692	2 802	12 37.0
	29	11 5 28.46	6 30.41	+7 14 24.0	46 25.7	1.361 890	3 410	12 39.6
	30	11 11 58.87	6 24.09	6 27 58.3	46 27.9	1.358 480	3 983	12 42.1
	31	11 18 22.96	6 18.02	5 41 30.4	46 26.5	1.354 497	4 528	12 44.5
Sept.	1	11 24 40.98	6 12.19	4 55 3.9	46 21.7	1.349 969	5 044	12 46.8
	2	11 30 53.17	6 6.60	4 8 42.2	46 13.9	1.344 925	5 535	12 49.0
	3	11 36 59.77		+ 3 22 28.3		1.339 390		12 51.2

Tag	0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	11 36 59.77	6 1.23	+ 3 22 28.3	46 3.4	1.339 390	6 004	12 51.2
4	11 43 1.00	5 56.10	2 36 24.9	45 50.4	1.333 386	6 454	12 53.2
5	11 48 57.10	5 51.17	1 50 34.5	45 34.8	1.326 932	6 886	12 55.2
6	11 54 48.27	5 46.44	1 4 59.7	45 17.2	1.320 046	7 303	12 57.0
7	12 0 34.71	5 41.91	+ 0 19 42.5	44 57.4	1.312 743	7 708	12 58.8
8	12 6 16.62	5 37.55	− 0 25 14.9	44 35.5	1.305 035	8 100	13 0.5
9	12 11 54.17	5 33.34	− 1 9 50.4	44 11.8	1.296 935	8 483	13 2.2
10	12 17 27.51	5 29.28	1 54 2.2	43 46.3	1.288 452	8 858	13 3.8
11	12 22 56.79	5 25.34	2 37 48.5	43 19.0	1.279 594	9 226	13 5.3
12	12 28 22.13	5 21.53	3 21 7.5	42 49.9	1.270 368	9 588	13 6.7
13	12 33 43.66	5 17.79	4 3 57.4	42 19.2	1.260 780	9 945	13 8.1
14	12 39 1.45	5 14.13	4 46 16.6	41 46.8	1.250 835	10 300	13 9.4
15	12 44 15.58	5 10.53	− 5 28 3.4	41 12.7	1.240 535	10 651	13 10.7
16	12 49 26.11	5 6.95	6 9 16.1	40 36.9	1.229 884	11 000	13 11.9
17	12 54 33.06	5 3.37	6 49 53.0	39 59.3	1.218 884	11 349	13 13.0
18	12 59 36.43	4 59.79	7 29 52.3	39 20.1	1.207 535	11 695	13 14.1
19	13 4 36.22	4 56.14	8 9 12.4	38 38.9	1.195 840	12 043	13 15.1
20	13 9 32.36	4 52.44	8 47 51.3	37 55.9	1.183 797	12 389	13 16.1
21	13 14 24.80	4 48.61	− 9 25 47.2	37 10.9	1.171 408	12 736	13 17.0
22	13 19 13.41	4 44.65	10 2 58.1	36 23.7	1.158 672	13 083	13 17.8
23	13 23 58.06	4 40.50	10 39 21.8	35 34.4	1.145 589	13 429	13 18.6
24	13 28 38.56	4 36.13	11 14 56.2	34 42.8	1.132 160	13 775	13 19.3
25	13 33 14.69	4 31.50	11 49 39.0	33 48.5	1.118 385	14 120	13 19.9
26	13 37 46.19	4 26.56	12 23 27.5	32 51.5	1.104 265	14 463	13 20.4
27	13 42 12.75	4 21.25	−12 56 19.0	31 51.6	1.089 802	14 804	13 20.9
28	13 46 34.00	4 15.50	13 28 10.6	30 48.6	1.074 998	15 140	13 21.2
29	13 50 49.50	4 9.27	13 58 59.2	29 42.1	1.059 858	15 472	13 21.5
30	13 54 58.77	4 2.48	14 28 41.3	28 31.7	1.044 386	15 796	13 21.7
Okt. 1	13 59 1.25	3 55.04	14 57 13.0	27 17.3	1.028 590	16 112	13 21.7
2	14 2 56.29	3 46.88	15 24 30.3	25 58.3	1.012 478	16 416	13 21.6
3	14 6 43.17	3 37.89	−15 50 28.6	24 34.3	0.996 062	16 706	13 21.3
4	14 10 21.06	3 27.98	16 15 2.9	23 4.7	0.979 356	16 977	13 20.9
5	14 13 49.04	3 17.03	16 38 7.6	21 28.9	0.962 379	17 226	13 20.4
6	14 17 6.07	3 4.93	16 59 36.5	19 46.3	0.945 153	17 448	13 19.6
7	14 20 11.00	2 51.54	17 19 22.8	17 56.1	0.927 705	17 636	13 18.6
8	14 23 2.54	2 36.73	17 37 18.9	15 57.3	0.910 069	17 784	13 17.4
9	14 25 39.27	2 20.38	−17 53 16.2	13 49.1	0.892 285	17 881	13 15.9
10	14 27 59.65	2 2.34	18 7 5.3	11 30.4	0.874 404	17 922	13 14.2
11	14 30 1.99	1 42.51	18 18 35.7	9 0.1	0.856 482	17 891	13 12.1
12	14 31 44.50	1 20.78	18 27 35.8	6 17.2	0.838 591	17 778	13 9.7
13	14 33 5.28	0 57.08	18 33 53.0	3 20.4	0.820 813	17 566	13 6.9
14	14 34 2.36		−18 37 13.4		0.803 247		13 3.7

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	14 34 2.36	0 31.41	−18 37 13.4	0 8.8	0.803 247	17 242	13 3.7
15	14 34 33.77	0 3.79	18 37 22.2	3 18.4	0.786 005	16 785	13 0.0
16	14 34 37.56	0 25.58	18 34 3.8	7 1.6	0.769 220	16 174	12 55.9
17	14 34 11.98	0 56.44	18 27 2.2	11 0.2	0.753 046	15 392	12 51.2
18	14 33 15.54	1 28.35	18 16 2.0	15 12.9	0.737 654	14 415	12 46.1
19	14 31 47.19	2 0.67	18 0 49.1	19 36.9	0.723 239	13 223	12 40.4
20	14 29 46.52	2 32.56	−17 41 12.2	24 7.8	0.710 016	11 798	12 34.2
21	14 27 13.96	3 2.98	17 17 4.4	28 38.6	0.698 218	10 128	12 27.5
22	14 24 10.98	3 30.70	16 48 25.8	33 0.3	0.688 090	8 206	12 20.3
23	14 20 40.28	3 54.36	16 15 25.5	37 1.7	0.679 884	6 032	12 12.7
24	14 16 45.92	4 12.61	15 38 23.8	40 29.9	0.673 852	3 625	12 4.7
25	14 12 33.31	4 24.18	14 57 53.9	43 11.5	0.670 227	1 011	11 56.5
26	14 8 9.13	4 28.10	−14 14 42.4	44 53.8	0.669 216	1 766	11 48.1
27	14 3 41.03	4 23.76	13 29 48.6	45 26.7	0.670 982	4 651	11 39.8
28	13 59 17.27	4 11.09	12 44 21.9	44 44.8	0.675 633	7 577	11 31.6
29	13 55 6.18	3 50.51	11 59 37.1	42 47.4	0.683 210	10 473	11 23.6
30	13 51 15.67	3 22.92	11 16 49.7	39 39.2	0.693 683	13 268	11 16.1
31	13 47 52.75	2 49.62	10 37 10.5	35 30.1	0.706 951	15 892	11 9.1
Nov. 1	13 45 3.13	2 12.11	−10 1 40.4	30 33.0	0.722 843	18 290	11 2.6
2	13 42 51.02	1 31.96	9 31 7.4	25 2.7	0.741 133	20 418	10 56.8
3	13 41 19.06	0 50.64	9 6 4.7	19 13.6	0.761 551	22 242	10 51.6
4	13 40 28.42	0 9.48	8 46 51.1	13 19.8	0.783 793	23 750	10 47.2
5	13 40 18.94	0 30.48	8 33 31.3	7 32.5	0.807 543	24 938	10 43.4
6	13 40 49.42	1 8.40	8 25 58.8	2 0.9	0.832 481	25 817	10 40.2
7	13 41 57.82	1 43.77	−8 23 57.9	3 8.6	0.858 298	26 403	10 37.7
8	13 43 41.59	2 16.23	8 27 6.5	7 52.1	0.884 701	26 722	10 35.7
9	13 45 57.82	2 45.67	8 34 58.6	12 7.0	0.911 423	26 804	10 34.3
10	13 48 43.49	3 12.08	8 47 5.6	15 52.7	0.938 227	26 677	10 33.3
11	13 51 55.57	3 35.59	9 2 58.3	19 9.7	0.964 904	26 374	10 32.8
12	13 55 31.16	3 56.37	9 22 8.0	21 59.2	0.991 278	25 923	10 32.6
13	13 59 27.53	4 14.63	−9 44 7.2	24 23.0	1.017 201	25 352	10 32.7
14	14 3 42.16	4 30.64	10 8 30.2	26 23.1	1.042 553	24 686	10 33.1
15	14 8 12.80	4 44.65	10 34 53.3	28 1.7	1.067 239	23 947	10 33.8
16	14 12 57.45	4 56.87	11 2 55.0	29 20.9	1.091 186	23 153	10 34.7
17	14 17 54.32	5 7.54	11 32 15.9	30 22.7	1.114 339	22 320	10 35.8
18	14 23 1.86	5 16.87	12 2 38.6	31 9.3	1.136 659	21 463	10 37.0
19	14 28 18.73	5 25.05	−12 33 47.9	31 42.2	1.158 122	20 590	10 38.4
20	14 33 43.78	5 32.25	13 5 30.1	32 3.2	1.178 712	19 714	10 40.0
21	14 39 16.03	5 38.60	13 37 33.3	32 13.7	1.198 426	18 838	10 41.6
22	14 44 54.63	5 44.24	14 9 47.0	32 14.8	1.217 264	17 969	10 43.4
23	14 50 38.87	5 49.29	14 42 1.8	32 7.9	1.235 233	17 112	10 45.2
24	14 56 28.16		−15 14 9.7		1.252 345		10 47.1

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Nov.	24	14 56 28.16	5 53.83	—15 14 9.7	31 53.9	1.252 345	16 268	10 47.1
	25	15 2 21.99	5 57.96	15 46 3.6	31 33.5	1.268 613	15 442	10 49.1
	26	15 8 19.95	6 1.72	16 17 37.1	31 7.6	1.284 055	14 632	10 51.2
	27	15 14 21.67	6 5.19	16 48 44.7	30 36.7	1.298 687	13 841	10 53.3
	28	15 20 26.86	6 8.43	17 19 21.4	30 1.3	1.312 528	13 069	10 55.4
	29	15 26 35.29	6 11.47	17 49 22.7	29 22.2	1.325 597	12 315	10 57.7
	30	15 32 46.76	6 14.33	—18 18 44.9	28 39.5	1.337 912	11 579	10 59.9
Dez.	1	15 39 1.09	6 17.07	18 47 24.4	27 53.5	1.349 491	10 862	11 2.3
	2	15 45 18.16	6 19.69	19 15 17.9	27 4.7	1.360 353	10 162	11 4.6
	3	15 51 37.85	6 22.22	19 42 22.6	26 13.3	1.370 515	9 478	11 7.0
	4	15 58 0.07	6 24.67	20 8 35.9	25 19.3	1.379 993	8 810	11 9.5
	5	16 4 24.74	6 27.05	20 33 55.2	24 23.1	1.388 803	8 154	11 12.0
	6	16 10 51.79	6 29.39	—20 58 18.3	23 24.9	1.396 957	7 514	11 14.5
	7	16 17 21.18	6 31.67	21 21 43.2	22 24.7	1.404 471	6 885	11 17.1
	8	16 23 52.85	6 33.91	21 44 7.9	21 22.6	1.411 356	6 268	11 19.7
	9	16 30 26.76	6 36.11	22 5 30.5	20 18.6	1.417 624	5 660	11 22.3
	10	16 37 2.87	6 38.27	22 25 49.1	19 13.0	1.423 284	5 062	11 25.0
	11	16 43 41.14	6 40.40	22 45 2.1	18 5.9	1.428 346	4 472	11 27.7
	12	16 50 21.54	6 42.49	—23 3 8.0	16 57.0	1.432 818	3 888	11 30.5
	13	16 57 4.03	6 44.52	23 20 5.0	15 46.7	1.436 706	3 310	11 33.3
	14	17 3 48.55	6 46.53	23 35 51.7	14 34.9	1.440 016	2 737	11 36.1
	15	17 10 35.08	6 48.47	23 50 26.6	13 21.7	1.442 753	2 167	11 38.9
	16	17 17 23.55	6 50.36	24 3 48.3	12 6.9	1.444 920	1 600	11 41.8
	17	17 24 13.91	6 52.19	24 15 55.2	10 50.9	1.446 520	1 033	11 44.7
	18	17 31 6.10	6 53.96	—24 26 46.1	9 33.5	1.447 553	469	11 47.7
	19	17 38 0.06	6 55.64	24 36 19.6	8 14.7	1.448 022	97	11 50.7
	20	17 44 55.70	6 57.25	24 44 34.3	6 54.7	1.447 925	664	11 53.7
	21	17 51 52.95	6 58.77	24 51 29.0	5 33.3	1.447 261	1 234	11 56.7
	22	17 58 51.72	7 0.20	24 57 2.3	4 10.7	1.446 027	1 808	11 59.8
	23	18 5 51.92	7 1.52	25 1 13.0	2 46.8	1.444 219	2 386	12 2.8
	24	18 12 53.44	7 2.73	—25 3 59.8	1 22.0	1.441 833	2 970	12 5.9
	25	18 19 56.17	7 3.83	25 5 21.8	0 4.5	1.438 863	3 562	12 9.1
	26	18 27 0.00	7 4.79	25 5 17.3	1 31.8	1.435 301	4 162	12 12.2
	27	18 34 4.79	7 5.62	25 3 45.5	3 0.0	1.431 139	4 771	12 15.3
	28	18 41 10.41	7 6.29	25 0 45.5	4 29.5	1.426 368	5 392	12 18.5
	29	18 48 16.70	7 6.79	24 56 16.0	5 59.7	1.420 976	6 026	12 21.7
	30	18 55 23.49	7 7.12	—24 50 16.3	7 31.1	1.414 950	6 672	12 24.9
	31	19 2 30.61	7 7.25	24 42 45.2	9 3.1	1.408 278	7 334	12 28.1
	32	19 9 37.86		—24 33 42.1		1.400 944		12 31.2

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	16 45 28.24	5 17.29	−21 13 29.1	11 30.9	1.453 929	4 562	10 9.0
	1	16 50 45.53	5 18.16	21 25 0.0	10 53.7	1.458 491	4 525	10 10.3
	2	16 56 3.69	5 18.99	21 35 53.7	10 16.2	1.463 016	4 489	10 11.7
	3	17 1 22.68	5 19.78	21 46 9.9	9 38.0	1.467 505	4 453	10 13.1
	4	17 6 42.46	5 20.54	21 55 47.9	8 59.4	1.471 958	4 417	10 14.5
	5	17 12 3.00	5 21.24	22 4 47.3	8 20.4	1.476 375	4 381	10 15.9
	6	17 17 24.24	5 21.91	−22 13 7.7	7 40.9	1.480 756	4 345	10 17.3
	7	17 22 46.15	5 22.53	22 20 48.6	7 1.1	1.485 101	4 311	10 18.7
	8	17 28 8.68	5 23.09	22 27 49.7	6 20.9	1.489 412	4 275	10 20.1
	9	17 33 31.77	5 23.61	22 34 10.6	5 40.3	1.493 687	4 240	10 21.6
	10	17 38 55.38	5 24.07	22 39 50.9	4 59.5	1.497 927	4 205	10 23.1
	11	17 44 19.45	5 24.48	22 44 50.4	4 18.4	1.502 132	4 170	10 24.5
	12	17 49 43.93	5 24.85	−22 49 8.8	3 37.0	1.506 302	4 135	10 26.0
	13	17 55 8.78	5 25.14	22 52 45.8	2 55.4	1.510 437	4 100	10 27.5
	14	18 0 33.92	5 25.40	22 55 41.2	2 13.7	1.514 537	4 066	10 28.9
	15	18 5 59.32	5 25.60	22 57 54.9	1 31.7	1.518 603	4 030	10 30.4
	16	18 11 24.92	5 25.73	22 59 26.6	0 49.7	1.522 633	3 995	10 31.9
	17	18 16 50.65	5 25.81	23 0 16.3	0 7.6	1.526 628	3 959	10 33.4
	18	18 22 16.46	5 25.84	−23 0 23.9	0 34.6	1.530 587	3 923	10 34.9
	19	18 27 42.30	5 25.79	22 59 49.3	1 16.8	1.534 510	3 887	10 36.4
	20	18 33 8.09	5 25.70	22 58 32.5	1 59.0	1.538 397	3 850	10 37.9
	21	18 38 33.79	5 25.54	22 56 33.5	2 41.1	1.542 247	3 813	10 39.4
	22	18 43 59.33	5 25.32	22 53 52.4	3 23.1	1.546 060	3 776	10 40.8
	23	18 49 24.65	5 25.04	22 50 29.3	4 5.0	1.549 836	3 739	10 42.3
	24	18 54 49.69	5 24.70	−22 46 24.3	4 46.9	1.553 575	3 701	10 43.8
	25	19 0 14.39	5 24.31	22 41 37.4	5 28.4	1.557 276	3 663	10 45.3
	26	19 5 38.70	5 23.85	22 36 9.0	6 9.9	1.560 939	3 626	10 46.7
	27	19 11 2.55	5 23.34	22 29 59.1	6 50.9	1.564 565	3 588	10 48.2
	28	19 16 25.89	5 22.77	22 23 8.2	7 31.9	1.568 153	3 551	10 49.6
	29	19 21 48.66	5 22.15	22 15 36.3	8 12.4	1.571 704	3 513	10 51.1
	30	19 27 10.81	5 21.49	−22 7 23.9	8 52.6	1.575 217	3 476	10 52.5
	31	19 32 32.30	5 20.77	21 58 31.3	9 32.6	1.578 693	3 439	10 53.9
Febr.	1	19 37 53.07	5 20.01	21 48 58.7	10 12.1	1.582 132	3 401	10 55.3
	2	19 43 13.08	5 19.20	21 38 46.6	10 51.2	1.585 533	3 365	10 56.7
	3	19 48 32.28	5 18.36	21 27 55.4	11 29.8	1.588 898	3 329	10 58.0
	4	19 53 50.64	5 17.47	21 16 25.6	12 8.0	1.592 227	3 293	10 59.4
	5	19 59 8.11	5 16.55	−21 4 17.6	12 45.8	1.595 520	3 256	11 0.7
	6	20 4 24.66	5 15.60	20 51 31.8	13 23.0	1.598 776	3 220	11 2.1
	7	20 9 40.26	5 14.62	20 38 8.8	13 59.7	1.601 996	3 184	11 3.4
	8	20 14 54.88	5 13.60	20 24 9.1	14 35.8	1.605 180	3 148	11 4.7
	9	20 20 8.48	5 12.57	20 9 33.3	15 11.6	1.608 328	3 113	11 6.0
	10	20 25 21.05		−19 54 21.7		1.611 441		11 7.2

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	20 25 21.05	5 11.51	−19 54 21.7	15 46.6	1.611 441	3 077	11 7.2
	11	20 30 32.56	5 10.44	19 38 35.1	16 21.0	1.614 518	3 041	11 8.5
	12	20 35 43.00	5 9.34	19 22 14.1	16 54.9	1.617 559	3 005	11 9.7
	13	20 40 52.34	5 8.24	19 5 19.2	17 28.1	1.620 564	2 970	11 10.9
	14	20 46 0.58	5 7.12	18 47 51.1	18 0.8	1.623 534	2 933	11 12.1
	15	20 51 7.70	5 6.00	18 29 50.3	18 32.7	1.626 467	2 897	11 13.2
	16	20 56 13.70	5 4.85	−18 11 17.6	19 4.0	1.629 364	2 860	11 14.4
	17	21 1 18.55	5 3.71	17 52 13.6	19 34.7	1.632 224	2 822	11 15.5
	18	21 6 22.26	5 2.57	17 32 38.9	20 4.6	1.635 046	2 784	11 16.6
	19	21 11 24.83	5 1.42	17 12 34.3	20 33.8	1.637 830	2 746	11 17.7
	20	21 16 26.25	5 0.26	16 52 0.5	21 2.4	1.640 576	2 708	11 18.8
	21	21 21 26.51	4 59.12	16 30 58.1	21 30.3	1.643 284	2 668	11 19.9
	22	21 26 25.63	4 57.97	−16 9 27.8	21 57.3	1.645 952	2 629	11 20.9
	23	21 31 23.60	4 56.83	15 47 30.5	22 23.8	1.648 581	2 590	11 21.9
	24	21 36 20.43	4 55.69	15 25 6.7	22 49.3	1.651 171	2 550	11 22.9
	25	21 41 16.12	4 54.56	15 2 17.4	23 14.2	1.653 721	2 510	11 23.9
	26	21 46 10.68	4 53.45	14 39 3.2	23 38.5	1.656 231	2 470	11 24.8
	27	21 51 4.13	4 52.34	14 15 24.7	24 1.8	1.658 701	2 430	11 25.8
	28	21 55 56.47	4 51.25	−13 51 22.9	24 24.5	1.661 131	2 390	11 26.7
März	1	22 0 47.72	4 50.18	13 26 58.4	24 46.4	1.663 521	2 350	11 27.6
	2	22 5 37.90	4 49.13	13 2 12.0	24 7.6	1.665 871	2 310	11 28.5
	3	22 10 27.03	4 48.09	12 37 4.4	25 28.0	1.668 181	2 269	11 29.4
	4	22 15 15.12	4 47.09	12 11 36.4	25 47.8	1.670 450	2 230	11 30.2
	5	22 20 2.21	4 46.09	11 45 48.6	26 6.7	1.672 680	2 190	11 31.0
	6	22 24 48.30	4 45.14	−11 19 41.9	26 24.8	1.674 870	2 150	11 31.9
	7	22 29 33.44	4 44.21	10 53 17.1	26 42.3	1.677 020	2 110	11 32.7
	8	22 34 17.65	4 43.29	10 26 34.8	26 59.0	1.679 130	2 070	11 33.5
	9	22 39 0.94	4 42.43	9 59 35.8	27 15.0	1.681 200	2 030	11 34.2
	10	22 43 43.37	4 41.58	9 32 20.8	27 30.2	1.683 230	1 991	11 35.0
	11	22 48 24.95	4 40.78	9 4 50.6	27 44.7	1.685 221	1 950	11 35.7
	12	22 53 5.73	4 40.00	− 8 37 5.9	27 58.5	1.687 171	1 911	11 36.5
	13	22 57 45.73	4 39.27	8 9 7.4	28 11.5	1.689 082	1 871	11 37.2
	14	23 2 25.00	4 38.57	7 40 55.9	28 23.9	1.690 953	1 831	11 37.9
	15	23 7 3.57	4 37.91	7 12 32.0	28 35.4	1.692 784	1 790	11 38.6
	16	23 11 41.48	4 37.29	6 43 56.6	28 46.3	1.694 574	1 749	11 39.3
	17	23 16 18.77	4 36.71	6 15 10.3	28 56.5	1.696 323	1 707	11 39.9
	18	23 20 55.48	4 36.16	− 5 46 13.8	29 5.8	1.698 030	1 665	11 40.6
	19	23 25 31.64	4 35.65	5 17 8.0	29 14.6	1.699 695	1 622	11 41.3
	20	23 30 7.29	4 35.19	4 47 53.4	29 22.6	1.701 317	1 579	11 41.9
	21	23 34 42.48	4 34.75	4 18 30.8	29 29.7	1.702 896	1 535	11 42.5
	22	23 39 17.23	4 34.37	3 49 1.1	29 36.3	1.704 431	1 491	11 43.2
	23	23 43 51.60		− 3 19 24.8		1.705 922		11 43.8

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
März	23	23 43 51.60	4 34.01	−3 19 24.8	29 42.0	1.705 922	1 446	11 43.8
	24	23 48 25.61	4 33.70	2 49 42.8	29 47.0	1.707 368	1 401	11 44.4
	25	23 52 59.31	4 33.42	2 19 55.8	29 51.4	1.708 769	1 355	11 45.0
	26	23 57 32.73	4 33.20	1 50 4.4	29 54.9	1.710 124	1 309	11 45.7
	27	0 2 5.93	4 32.99	1 20 9.5	29 57.8	1.711 433	1 263	11 46.3
	28	0 6 38.92	4 32.83	0 50 11.7	29 59.9	1.712 696	1 217	11 46.9
	29	0 11 11.75	4 32.72	−0 20 11.8	30 1.3	1.713 913	1 170	11 47.5
	30	0 15 44.47	4 32.65	+0 9 49.5	30 1.9	1.715 083	1 123	11 48.1
	31	0 20 17.12	4 32.61	0 39 51.4	30 1.9	1.716 206	1 076	11 48.7
April	1	0 24 49.73	4 32.61	1 9 53.3	30 1.2	1.717 282	1 029	11 49.3
	2	0 29 22.34	4 32.66	1 39 54.5	29 59.6	1.718 311	982	11 49.9
	3	0 33 55.00	4 32.74	2 9 54.1	29 57.4	1.719 293	934	11 50.5
	4	0 38 27.74	4 32.87	+2 39 51.5	29 54.5	1.720 227	887	11 51.1
	5	0 43 0.61	4 33.04	3 9 46.0	29 50.8	1.721 114	840	11 51.7
	6	0 47 33.65	4 33.24	3 39 36.8	29 46.5	1.721 954	792	11 52.3
	7	0 52 6.89	4 33.50	4 9 23.3	29 41.3	1.722 746	744	11 52.9
	8	0 56 40.39	4 33.79	4 39 4.6	29 35.5	1.723 490	697	11 53.5
	9	1 1 14.18	4 34.12	5 8 40.1	29 29.1	1.724 187	650	11 54.2
	10	1 5 48.30	4 34.50	+5 38 9.2	29 21.8	1.724 837	602	11 54.8
	11	1 10 22.80	4 34.92	6 7 31.0	29 13.8	1.725 439	554	11 55.4
	12	1 14 57.72	4 35.38	6 36 44.8	29 5.2	1.725 993	507	11 56.1
	13	1 19 33.10	4 35.88	7 5 50.0	28 55.8	1.726 500	458	11 56.7
	14	1 24 8.98	4 36.42	7 34 45.8	28 45.7	1.726 958	409	11 57.4
	15	1 28 45.40	4 37.00	8 3 31.5	28 34.9	1.727 367	360	11 58.0
	16	1 33 22.40	4 37.63	+8 32 6.4	28 23.3	1.727 727	309	11 58.7
	17	1 38 0.03	4 38.28	9 0 29.7	28 11.1	1.728 036	260	11 59.4
	18	1 42 38.31	4 38.97	9 28 40.8	27 58.1	1.728 296	208	12 0.1
	19	1 47 17.28	4 39.70	9 56 38.9	27 44.3	1.728 504	157	12 0.8
	20	1 51 56.98	4 40.46	10 24 23.2	27 29.9	1.728 661	104	12 1.6
	21	1 56 37.44	4 41.25	10 51 53.1	27 14.6	1.728 765	52	12 2.3
	22	2 1 18.69	4 42.08	+11 19 7.7	26 58.6	1.728 817	1	12 3.0
	23	2 6 0.77	4 42.92	11 46 6.3	26 41.9	1.728 816	55	12 3.8
	24	2 10 43.69	4 43.80	12 12 48.2	26 24.5	1.728 761	109	12 4.6
	25	2 15 27.49	4 44.70	12 39 12.7	26 6.2	1.728 652	163	12 5.4
	26	2 20 12.19	4 45.63	13 5 18.9	25 47.2	1.728 489	217	12 6.2
	27	2 24 57.82	4 46.59	13 31 6.1	25 27.6	1.728 272	273	12 7.0
	28	2 29 44.41	4 47.56	+13 56 33.7	25 7.0	1.727 999	327	12 7.9
	29	2 34 31.97	4 48.55	14 21 40.7	24 45.8	1.727 672	383	12 8.7
	30	2 39 20.52	4 49.57	14 46 26.5	24 23.9	1.727 289	438	12 9.6
Mai	1	2 44 10.09	4 50.60	15 10 50.4	24 1.1	1.726 851	494	12 10.5
	2	2 49 0.69	4 51.65	15 34 51.5	23 37.7	1.726 357	549	12 11.4
	3	2 53 52.34		+15 58 29.2		1.725 808		12 12.3

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Mai	3	2 53 52.34	4 52.72	+15 58 29.2	23 13.4	1.725 808	604	12 12.3
	4	2 58 45.06	4 53.78	16 21 42.6	22 48.5	1.725 204	660	12 13.3
	5	3 3 38.84	4 54.87	16 44 31.1	22 22.9	1.724 544	716	12 14.2
	6	3 8 33.71	4 55.97	17 6 54.0	21 56.4	1.723 828	771	12 15.2
	7	3 13 29.68	4 57.07	17 28 50.4	21 29.2	1.723 057	827	12 16.2
	8	3 18 26.75	4 58.18	17 50 19.6	21 1.4	1.722 230	881	12 17.2
	9	3 23 24.93	4 59.30	+18 11 21.0	20 32.9	1.721 349	936	12 18.3
	10	3 28 24.23	5 0.42	18 31 53.9	20 3.6	1.720 413	992	12 19.3
	11	3 33 24.65	5 1.54	18 51 57.5	19 33.6	1.719 421	1 046	12 20.4
	12	3 38 26.19	5 2.66	19 11 31.1	19 3.0	1.718 375	1 102	12 21.5
	13	3 43 28.85	5 3.78	19 30 34.1	18 31.6	1.717 273	1 158	12 22.6
	14	3 48 32.63	5 4.89	19 49 5.7	17 59.6	1.716 115	1 213	12 23.8
	15	3 53 37.52	5 5.99	+20 7 5.3	17 27.0	1.714 902	1 269	12 24.9
	16	3 58 43.51	5 7.08	20 24 32.3	16 53.6	1.713 633	1 327	12 26.1
	17	4 3 50.59	5 8.16	20 41 25.9	16 19.7	1.712 306	1 383	12 27.3
	18	4 8 58.75	5 9.22	20 57 45.6	15 45.2	1.710 923	1 441	12 28.5
	19	4 14 7.97	5 10.25	21 13 30.8	15 9.9	1.709 482	1 498	12 29.7
	20	4 19 18.22	5 11.26	21 28 40.7	14 34.2	1.707 984	1 556	12 30.9
	21	4 24 29.48	5 12.24	+21 43 14.9	13 57.7	1.706 428	1 615	12 32.2
	22	4 29 41.72	5 13.20	21 57 12.6	13 20.8	1.704 813	1 674	12 33.4
	23	4 34 54.92	5 14.12	22 10 33.4	12 43.3	1.703 139	1 732	12 34.7
	24	4 40 9.04	5 15.00	22 23 16.7	12 5.3	1.701 407	1 792	12 36.0
	25	4 45 24.04	5 15.84	22 35 22.0	11 26.7	1.699 615	1 851	12 37.3
	26	4 50 39.88	5 16.66	22 46 48.7	10 47.8	1.697 764	1 910	12 38.7
	27	4 55 56.54	5 17.42	+22 57 36.5	10 8.3	1.695 854	1 969	12 40.0
	28	5 1 13.96	5 18.13	23 7 44.8	9 28.4	1.693 885	2 029	12 41.4
	29	5 6 32.09	5 18.81	23 17 13.2	8 48.0	1.691 856	2 089	12 42.8
	30	5 11 50.90	5 19.42	23 26 1.2	8 7.3	1.689 767	2 148	12 44.1
	31	5 17 10.32	5 20.00	23 34 8.5	7 26.2	1.687 619	2 207	12 45.5
Juni	1	5 22 30.32	5 20.51	23 41 34.7	6 44.9	1.685 412	2 266	12 46.9
	2	5 27 50.83	5 20.96	+23 48 19.6	6 3.1	1.683 146	2 325	12 48.3
	3	5 33 11.79	5 21.37	23 54 22.7	5 21.0	1.680 821	2 383	12 49.7
	4	5 38 33.16	5 21.72	23 59 43.7	4 38.9	1.678 438	2 442	12 51.1
	5	5 43 54.88	5 22.01	24 4 22.6	3 56.4	1.675 996	2 499	12 52.6
	6	5 49 16.89	5 22.24	24 8 19.0	3 13.7	1.673 497	2 556	12 54.0
	7	5 54 39.13	5 22.42	24 11 32.7	2 31.0	1.670 941	2 613	12 55.4
	8	6 0 1.55	5 22.53	+24 14 3.7	1 48.0	1.668 328	2 670	12 56.9
	9	6 5 24.08	5 22.59	24 15 51.7	1 5.0	1.665 658	2 726	12 58.3
	10	6 10 46.67	5 22.60	24 16 56.7	0 21.9	1.662 932	2 782	12 59.7
	11	6 16 9.27	5 22.53	24 17 18.6	0 21.3	1.660 150	2 838	13 1.2
	12	6 21 31.80	5 22.42	24 16 57.3	1 4.4	1.657 312	2 894	13 2.6
	13	6 26 54.22		+24 15 52.9		1.654 418		13 4.0

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Juni 13	6 26 54.22	5 22.24	+24 15 52.9	1 47.4	1.654 418	2 950	13 4.0
14	6 32 16.46	5 22.01	24 14 5.5	2 30.5	1.651 468	3 006	13 5.5
15	6 37 38.47	5 21.72	24 11 35.0	3 13.3	1.648 462	3 063	13 6.9
16	6 43 0.19	5 21.36	24 8 21.7	3 56.2	1.645 399	3 118	13 8.3
17	6 48 21.55	5 20.96	24 4 25.5	4 38.8	1.642 281	3 175	13 9.7
18	6 53 42.51	5 20.48	23 59 46.7	5 21.2	1.639 106	3 231	13 11.1
19	6 59 2.99	5 19.96	+23 54 25.5	6 3.4	1.635 875	3 288	13 12.5
20	7 4 22.95	5 19.37	23 48 22.1	6 45.4	1.632 587	3 344	13 13.9
21	7 9 42.32	5 18.73	23 41 36.7	7 27.1	1.629 243	3 400	13 15.3
22	7 15 1.05	5 18.05	23 34 9.6	8 8.5	1.625 843	3 456	13 16.6
23	7 20 19.10	5 17.30	23 26 1.1	8 49.5	1.622 387	3 512	13 18.0
24	7 25 36.40	5 16.50	23 17 11.6	9 30.2	1.618 875	3 568	13 19.3
25	7 30 52.90	5 15.67	+23 7 41.4	10 10.5	1.615 307	3 624	13 20.7
26	7 36 8.57	5 14.77	22 57 30.9	10 50.3	1.611 683	3 680	13 22.0
27	7 41 23.34	5 13.83	22 46 40.6	11 29.7	1.608 003	3 735	13 23.3
28	7 46 37.17	5 12.86	22 35 10.9	12 8.7	1.604 268	3 791	13 24.5
29	7 51 50.03	5 11.84	22 23 2.2	12 47.2	1.600 477	3 845	13 25.8
30	7 57 1.87	5 10.79	22 10 15.0	13 25.1	1.596 632	3 899	13 27.1
Juli 1	8 2 12.66	5 9.69	+21 56 49.9	14 2.5	1.592 733	3 953	13 28.3
2	8 7 22.35	5 8.56	21 42 47.4	14 39.5	1.588 780	4 006	13 29.5
3	8 12 30.91	5 7.41	21 28 7.9	15 15.7	1.584 774	4 058	13 30.7
4	8 17 38.32	5 6.23	21 12 52.2	15 51.5	1.580 716	4 111	13 31.9
5	8 22 44.55	5 5.03	20 57 0.7	16 26.7	1.576 605	4 161	13 33.0
6	8 27 49.58	5 3.81	20 40 34.0	17 1.2	1.572 444	4 212	13 34.1
7	8 32 53.39	5 2.56	+20 23 32.8	17 35.2	1.568 232	4 262	13 35.2
8	8 37 55.95	5 1.32	20 5 57.6	18 8.4	1.563 970	4 311	13 36.3
9	8 42 57.27	5 0.05	19 47 49.2	18 41.1	1.559 659	4 360	13 37.4
10	8 47 57.32	4 58.78	19 29 8.1	19 13.1	1.555 299	4 408	13 38.4
11	8 52 56.10	4 57.51	19 9 55.0	19 44.5	1.550 891	4 456	13 39.5
12	8 57 53.61	4 56.24	18 50 10.5	20 15.2	1.546 435	4 504	13 40.5
13	9 2 49.85	4 54.95	+18 29 55.3	20 45.2	1.541 931	4 551	13 41.5
14	9 7 44.80	4 53.67	18 9 10.1	21 14.5	1.537 380	4 598	13 42.4
15	9 12 38.47	4 52.40	17 47 55.6	21 43.1	1.532 782	4 645	13 43.4
16	9 17 30.87	4 51.13	17 26 12.5	22 11.1	1.528 137	4 692	13 44.3
17	9 22 22.00	4 49.86	17 4 1.4	22 38.3	1.523 445	4 739	13 45.2
18	9 27 11.86	4 48.61	16 41 23.1	23 4.8	1.518 706	4 785	13 46.1
19	9 32 0.47	4 47.36	+16 18 18.3	23 30.5	1.513 921	4 832	13 46.9
20	9 36 47.83	4 46.12	15 54 47.8	23 55.7	1.509 089	4 877	13 47.8
21	9 41 33.95	4 44.90	15 30 52.1	24 20.1	1.504 212	4 923	13 48.6
22	9 46 18.85	4 43.70	15 6 32.0	24 43.6	1.499 289	4 968	13 49.4
23	9 51 2.55	4 42.50	14 41 48.4	25 6.6	1.494 321	5 014	13 50.1
24	9 55 45.05		+14 16 41.8		1.489 307		13 50.9

Venus 1941

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Juli	24	9 55 45.05	4 41.32	+14 16 41.8	25 28.7	1.489 307	5 059	13 50.9
	25	10 0 26.37	4 40.17	13 51 13.1	25 50.1	1.484 248	5 103	13 51.6
	26	10 5 6.54	4 39.04	13 25 23.0	26 10.8	1.479 145	5 148	13 52.3
	27	10 9 45.58	4 37.91	12 59 12.2	26 30.8	1.473 997	5 192	13 53.0
	28	10 14 23.49	4 36.82	12 32 41.4	26 50.0	1.468 805	5 235	13 53.7
	29	10 19 0.31	4 35.74	12 5 51.4	27 8.5	1.463 570	5 278	13 54.4
	30	10 23 36.05	4 34.70	+11 38 42.9	27 26.2	1.458 292	5 320	13 55.0
	31	10 28 10.75	4 33.68	11 11 16.7	27 43.3	1.452 972	5 362	13 55.6
Aug.	1	10 32 44.43	4 32.68	10 43 33.4	27 59.6	1.447 610	5 402	13 56.2
	2	10 37 17.11	4 31.72	10 15 33.8	28 15.1	1.442 208	5 442	13 56.8
	3	10 41 48.83	4 30.79	9 47 18.7	28 30.0	1.436 766	5 482	13 57.4
	4	10 46 19.62	4 29.88	9 18 48.7	28 44.2	1.431 284	5 520	13 58.0
	5	10 50 49.50	4 29.03	+ 8 50 4.5	28 57.6	1.425 764	5 558	13 58.5
	6	10 55 18.53	4 28.19	8 21 6.9	29 10.4	1.420 206	5 595	13 59.1
	7	10 59 46.72	4 27.40	7 51 56.5	29 22.4	1.414 611	5 631	13 59.6
	8	11 4 14.12	4 26.65	7 22 34.1	29 33.8	1.408 980	5 667	14 0.1
	9	11 8 40.77	4 25.93	6 53 0.3	29 44.4	1.403 313	5 702	14 0.6
	10	11 13 6.70	4 25.26	6 23 15.9	29 54.4	1.397 611	5 737	14 1.1
	11	11 17 31.96	4 24.62	+ 5 53 21.5	30 3.8	1.391 874	5 772	14 1.5
	12	11 21 56.58	4 24.03	5 23 17.7	30 12.3	1.386 102	5 806	14 2.0
	13	11 26 20.61	4 23.47	4 53 5.4	30 20.3	1.380 296	5 840	14 2.5
	14	11 30 44.08	4 22.96	4 22 45.1	30 27.5	1.374 456	5 873	14 2.9
	15	11 35 7.04	4 22.47	3 52 17.6	30 34.0	1.368 583	5 906	14 3.3
	16	11 39 29.51	4 22.04	3 21 43.6	30 39.9	1.362 677	5 940	14 3.8
	17	11 43 51.55	4 21.65	+ 2 51 3.7	30 45.0	1.356 737	5 973	14 4.2
	18	11 48 13.20	4 21.30	2 20 18.7	30 49.6	1.350 764	6 005	14 4.6
	19	11 52 34.50	4 20.97	1 49 29.1	30 53.4	1.344 759	6 037	14 5.0
	20	11 56 55.47	4 20.70	1 18 35.7	30 56.5	1.338 722	6 070	14 5.4
	21	12 1 16.17	4 20.47	0 47 39.2	30 59.0	1.332 652	6 102	14 5.8
	22	12 5 36.64	4 20.26	+ 0 16 40.2	31 0.7	1.326 550	6 133	14 6.2
	23	12 9 56.90	4 20.11	− 0 14 20.5	31 1.7	1.320 417	6 166	14 6.6
	24	12 14 17.01	4 19.98	0 45 22.2	31 2.1	1.314 251	6 197	14 7.0
	25	12 18 36.99	4 19.91	1 16 24.3	31 1.8	1.308 054	6 228	14 7.4
	26	12 22 56.90	4 19.85	1 47 26.1	31 0.8	1.301 826	6 258	14 7.8
	27	12 27 16.75	4 19.83	2 18 26.9	30 59.1	1.295 568	6 289	14 8.2
	28	12 31 36.58	4 19.86	2 49 26.0	30 56.6	1.289 279	6 319	14 8.6
	29	12 35 56.44	4 19.93	− 3 20 22.6	30 53.5	1.282 960	6 347	14 8.9
	30	12 40 16.37	4 20.02	3 51 10.1	30 49.7	1.276 613	6 376	14 9.3
	31	12 44 36.39	4 20.16	4 22 5.8	30 45.3	1.270 237	6 404	14 9.7
Sept.	1	12 48 56.55	4 20.33	4 52 51.1	30 40.1	1.263 833	6 430	14 10.1
	2	12 53 16.88	4 20.54	5 23 31.2	30 34.2	1.257 403	6 457	14 10.5
	3	12 57 37.42		− 5 54 5.4		1.250 946		14 10.9

Tag	0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: Δ	Diff.	Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Sept. 3	12 57 37.42	4 20.80	−5 54 5.4	30 27.7	1.250 946	6 483	14 10.9
4	13 1 58.22	4 21.08	6 24 33.1	30 20.5	1.244 463	6 507	14 11.3
5	13 6 19.30	4 21.41	6 54 53.6	30 12.5	1.237 956	6 532	14 11.7
6	13 10 40.71	4 21.78	7 25 6.1	30 4.0	1.231 424	6 556	14 12.2
7	13 15 2.49	4 22.19	7 55 10.1	29 54.7	1.224 868	6 579	14 12.6
8	13 19 24.68	4 22.63	8 25 4.8	29 44.7	1.218 289	6 602	14 13.0
9	13 23 47.31	4 23.11	−8 54 49.5	29 34.2	1.211 687	6 625	14 13.4
10	13 28 10.42	4 23.63	9 24 23.7	29 22.8	1.205 062	6 648	14 13.9
11	13 32 34.05	4 24.19	9 53 46.5	29 10.9	1.198 414	6 669	14 14.4
12	13 36 58.24	4 24.77	10 22 57.4	28 58.1	1.191 745	6 691	14 14.8
13	13 41 23.01	4 25.39	10 51 55.5	28 44.8	1.185 054	6 713	14 15.3
14	13 45 48.40	4 26.04	11 20 40.3	28 30.7	1.178 341	6 735	14 15.8
15	13 50 14.44	4 26.72	−11 49 11.0	28 15.9	1.171 606	6 756	14 16.3
16	13 54 41.16	4 27.44	12 17 26.9	28 0.4	1.164 850	6 777	14 16.8
17	13 59 8.60	4 28.18	12 45 27.3	27 44.2	1.158 073	6 798	14 17.3
18	14 3 36.78	4 28.94	13 13 11.5	27 27.4	1.151 275	6 819	14 17.8
19	14 8 5.72	4 29.74	13 40 38.9	27 9.8	1.144 456	6 841	14 18.4
20	14 12 35.46	4 30.54	14 7 48.7	26 51.5	1.137 615	6 862	14 19.0
21	14 17 6.00	4 31.38	−14 34 40.2	26 32.5	1.130 753	6 883	14 19.5
22	14 21 37.38	4 32.23	15 1 12.7	26 12.8	1.123 870	6 904	14 20.1
23	14 26 9.61	4 33.09	15 27 25.5	25 52.3	1.116 966	6 925	14 20.7
24	14 30 42.70	4 33.96	15 53 17.8	25 31.1	1.110 041	6 945	14 21.3
25	14 35 16.66	4 34.85	16 18 48.9	25 9.3	1.103 096	6 966	14 22.0
26	14 39 51.51	4 35.74	16 43 58.2	24 46.6	1.096 130	6 986	14 22.6
27	14 44 27.25	4 36.64	−17 8 44.8	24 23.3	1.089 144	7 005	14 23.3
28	14 49 3.89	4 37.55	17 33 8.1	23 59.1	1.082 139	7 024	14 24.0
29	14 53 41.44	4 38.46	17 57 7.2	23 34.5	1.075 115	7 042	14 24.7
30	14 58 19.90	4 39.37	18 20 41.7	23 9.0	1.068 073	7 060	14 25.4
Okt. 1	15 2 59.27	4 40.29	18 43 50.7	22 42.9	1.061 013	7 077	14 26.1
2	15 7 39.56	4 41.20	19 6 33.6	22 16.0	1.053 936	7 094	14 26.8
3	15 12 20.76	4 42.12	−19 28 49.6	21 48.5	1.046 842	7 110	14 27.6
4	15 17 2.88	4 43.02	19 50 38.1	21 20.2	1.039 732	7 126	14 28.3
5	15 21 45.90	4 43.93	20 11 58.3	20 51.4	1.032 606	7 141	14 29.1
6	15 26 29.83	4 44.83	20 32 49.7	20 22.0	1.025 465	7 156	14 29.9
7	15 31 14.66	4 45.71	20 53 11.7	19 51.8	1.018 309	7 170	14 30.7
8	15 36 0.37	4 46.59	21 13 3.5	19 21.0	1.011 139	7 184	14 31.6
9	15 40 46.96	4 47.44	−21 32 24.5	18 49.6	1.003 955	7 198	14 32.4
10	15 45 34.40	4 48.29	21 51 14.1	18 17.6	0.996 757	7 211	14 33.3
11	15 50 22.69	4 49.11	22 9 31.7	17 45.0	0.989 546	7 225	14 34.1
12	15 55 11.80	4 49.90	22 27 16.7	17 11.8	0.982 321	7 238	14 35.0
13	16 0 1.70	4 50.66	22 44 28.5	16 38.0	0.975 083	7 251	14 35.9
14	16 4 52.36		−23 1 6.5		0.967 832		14 36.8

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Okt. 14	16 4 52.36	4 51.41	−23 1 6.5	16 3.8	0.967 832	7 264	14 36.8
15	16 9 43.77	4 52.11	23 17 10.3	15 28.9	0.960 568	7 276	14 37.8
16	16 14 35.88	4 52.77	23 32 39.2	14 53.6	0.953 292	7 289	14 38.7
17	16 19 28.65	4 53.40	23 47 32.8	14 17.7	0.946 003	7 302	14 39.6
18	16 24 22.05	4 53.99	24 1 50.5	13 41.3	0.938 701	7 315	14 40.6
19	16 29 16.04	4 54.52	24 15 31.8	13 4.5	0.931 386	7 328	14 41.6
20	16 34 10.56	4 55.00	−24 28 36.3	12 27.4	0.924 058	7 341	14 42.5
21	16 39 5.56	4 55.42	24 41 3.7	11 49.7	0.916 717	7 353	14 43.5
22	16 44 0.98	4 55.79	24 52 53.4	11 11.6	0.909 364	7 367	14 44.5
23	16 48 56.77	4 56.07	25 4 5.0	10 33.2	0.901 997	7 379	14 45.5
24	16 53 52.84	4 56.30	25 14 38.2	9 54.5	0.894 618	7 391	14 46.5
25	16 58 49.14	4 56.45	25 24 32.7	9 15.4	0.887 227	7 404	14 47.5
26	17 3 45.59	4 56.53	−25 33 48.1	8 36.0	0.879 823	7 415	14 48.5
27	17 8 42.12	4 56.54	25 42 24.1	7 56.4	0.872 408	7 426	14 49.5
28	17 13 38.66	4 56.46	25 50 20.5	7 16.6	0.864 982	7 436	14 50.5
29	17 18 35.12	4 56.32	25 57 37.1	6 36.6	0.857 546	7 446	14 51.5
30	17 23 31.44	4 56.08	26 4 13.7	5 56.3	0.850 100	7 456	14 52.5
31	17 28 27.52	4 55.78	26 10 10.0	5 16.0	0.842 644	7 464	14 53.5
Nov. 1	17 33 23.30	4 55.38	−26 15 26.0	4 35.7	0.835 180	7 472	14 54.4
2	17 38 18.68	4 54.91	26 20 1.7	3 55.1	0.827 708	7 480	14 55.4
3	17 43 13.59	4 54.36	26 23 56.8	3 14.6	0.820 228	7 486	14 56.4
4	17 48 7.95	4 53.71	26 27 11.4	2 34.1	0.812 742	7 493	14 57.4
5	17 53 1.66	4 52.99	26 29 45.5	1 53.7	0.805 249	7 499	14 58.3
6	17 57 54.65	4 52.18	26 31 39.2	1 13.4	0.797 750	7 504	14 59.2
7	18 2 46.83	4 51.28	−26 32 52.6	0 33.1	0.790 246	7 509	15 0.1
8	18 7 38.11	4 50.29	26 33 25.7	0 7.0	0.782 737	7 513	15 1.0
9	18 12 28.40	4 49.23	26 33 18.7	0 46.8	0.775 224	7 517	15 1.9
10	18 17 17.63	4 48.07	26 32 31.9	1 26.6	0.767 707	7 520	15 2.8
11	18 22 5.70	4 46.81	26 31 5.3	2 5.9	0.760 187	7 523	15 3.6
12	18 26 52.51	4 45.48	26 28 59.4	2 45.1	0.752 664	7 526	15 4.5
13	18 31 37.99	4 44.06	−26 26 14.3	3 23.9	0.745 138	7 529	15 5.3
14	18 36 22.05	4 42.54	26 22 50.4	4 2.2	0.737 609	7 531	15 6.1
15	18 41 4.59	4 40.93	26 18 48.2	4 40.3	0.730 078	7 532	15 6.8
16	18 45 45.52	4 39.24	26 14 7.9	5 17.8	0.722 546	7 534	15 7.5
17	18 50 24.76	4 37.45	26 8 50.1	5 54.9	0.715 012	7 535	15 8.2
18	18 55 2.21	4 35.57	26 2 55.2	6 31.5	0.707 477	7 536	15 8.9
19	18 59 37.78	4 33.58	−25 56 23.7	7 7.5	0.699 941	7 538	15 9.5
20	19 4 11.36	4 31.50	25 49 16.2	7 43.0	0.692 403	7 538	15 10.1
21	19 8 42.86	4 29.32	25 41 33.2	8 17.9	0.684 865	7 537	15 10.7
22	19 13 12.18	4 27.03	25 33 15.3	8 52.0	0.677 328	7 537	15 11.2
23	19 17 39.21	4 24.64	25 24 23.3	9 25.7	0.669 791	7 536	15 11.7
24	19 22 3.85		−25 14 57.6		0.662 255		15 12.1

Venus 1941

Tag	0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	19 22 3.85	4 22.15	−25 14 57.6	9 58.5	0.662 255	7 534	15 12.1
25	19 26 26.00	4 19.56	25 4 59.1	10 30.7	0.654 721	7 530	15 12.5
26	19 30 45.56	4 16.87	24 54 28.4	11 2.1	0.647 191	7 526	15 12.9
27	19 35 2.43	4 14.09	24 43 26.3	11 32.7	0.639 665	7 520	15 13.2
28	19 39 16.52	4 11.21	24 31 53.6	12 2.6	0.632 145	7 513	15 13.4
29	19 43 27.73	4 8.22	24 19 51.0	12 31.6	0.624 632	7 506	15 13.6
30	19 47 35.95	4 5.16	−24 7 19.4	12 59.8	0.617 126	7 497	15 13.8
Dez. 1	19 51 41.11	4 1.98	23 54 19.6	13 27.2	0.609 629	7 487	15 13.9
2	19 55 43.09	3 58.72	23 40 52.4	13 53.6	0.602 142	7 475	15 14.0
3	19 59 41.81	3 55.35	23 26 58.8	14 19.1	0.594 667	7 462	15 14.0
4	20 3 37.16	3 51.90	23 12 39.7	14 43.8	0.587 205	7 448	15 13.9
5	20 7 29.06	3 48.34	22 57 55.9	15 7.4	0.579 757	7 432	15 13.8
6	20 11 17.40	3 44.70	−22 42 48.5	15 30.1	0.572 325	7 416	15 13.6
7	20 15 2.10	3 40.95	22 27 18.4	15 51.7	0.564 909	7 397	15 13.4
8	20 18 43.05	3 37.09	22 11 26.7	16 12.5	0.557 512	7 376	15 13.1
9	20 22 20.14	3 33.16	21 55 14.2	16 32.2	0.550 136	7 356	15 12.7
10	20 25 53.30	3 29.10	21 38 42.0	16 50.7	0.542 780	7 332	15 12.3
11	20 29 22.40	3 24.94	21 21 51.3	17 8.3	0.535 448	7 308	15 11.8
12	20 32 47.34	3 20.68	−21 4 43.0	17 24.7	0.528 140	7 282	15 11.2
13	20 36 8.02	3 16.31	20 47 18.3	17 40.0	0.520 858	7 254	15 10.6
14	20 39 24.33	3 11.81	20 29 38.3	17 54.2	0.513 604	7 225	15 9.9
15	20 42 36.14	3 7.19	20 11 44.1	18 7.2	0.506 379	7 194	15 9.1
16	20 45 43.33	3 2.46	19 53 36.9	18 19.1	0.499 185	7 161	15 8.2
17	20 48 45.79	2 57.57	19 35 17.8	18 29.6	0.492 024	7 127	15 7.2
18	20 51 43.36	2 52.53	−19 16 48.2	18 38.8	0.484 897	7 091	15 6.2
19	20 54 35.89	2 47.36	18 58 9.4	18 46.7	0.477 806	7 052	15 5.1
20	20 57 23.25	2 42.02	18 39 22.7	18 53.3	0.470 754	7 011	15 3.9
21	21 0 5.27	2 36.50	18 20 29.4	18 58.6	0.463 743	6 968	15 2.6
22	21 2 41.77	2 30.81	18 1 30.8	19 2.5	0.456 775	6 921	15 1.2
23	21 5 12.58	2 24.95	17 42 28.3	19 4.8	0.449 854	6 871	14 59.7
24	21 7 37.53	2 18.91	−17 23 23.5	19 5.8	0.442 983	6 819	14 58.1
25	21 9 56.44	2 12.67	17 4 17.7	19 5.3	0.436 164	6 762	14 56.4
26	21 12 9.11	2 6.24	16 45 12.4	19 3.3	0.429 402	6 701	14 54.6
27	21 14 15.35	1 59.60	16 26 9.1	18 59.6	0.422 701	6 638	14 52.7
28	21 16 14.95	1 52.79	16 7 9.5	18 54.4	0.416 063	6 569	14 50.7
29	21 18 7.74	1 45.76	15 48 15.1	18 47.6	0.409 494	6 496	14 48.6
30	21 19 53.50	1 38.52	−15 29 27.5	18 39.1	0.402 998	6 418	14 46.3
31	21 21 32.02	1 31.06	15 10 48.4	18 28.9	0.396 580	6 336	14 43.9
32	21 23 3.08		−14 52 19.5		0.390 244		14 41.4

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Jan.	0	15 38 13.85	2 45.42	−19 3 4.6	9 47.2	2.172 005	7 290	9 0.7
	1	15 40 59.27	2 45.82	19 12 51.8	9 38.4	2.164 715	7 325	8 59.5
	2	15 43 45.09	2 46.22	19 22 30.2	9 29.3	2.157 390	7 358	8 58.4
	3	15 46 31.31	2 46.61	19 31 59.5	9 20.1	2.150 032	7 390	8 57.2
	4	15 49 17.92	2 47.01	19 41 19.6	9 10.9	2.142 642	7 421	8 56.0
	5	15 52 4.93	2 47.39	19 50 30.5	9 1.5	2.135 221	7 452	8 54.9
	6	15 54 52.32	2 47.78	−19 59 32.0	8 52.1	2.127 769	7 483	8 53.7
	7	15 57 40.10	2 48.18	20 8 24.1	8 42.5	2.120 286	7 511	8 52.6
	8	16 0 28.28	2 48.56	20 17 6.6	8 32.8	2.112 775	7 539	8 51.4
	9	16 3 16.84	2 48.95	20 25 39.4	8 23.1	2.105 236	7 568	8 50.3
	10	16 6 5.79	2 49.33	20 34 2.5	8 13.3	2.097 668	7 594	8 49.2
	11	16 8 55.12	2 49.72	20 42 15.8	8 3.2	2.090 074	7 622	8 48.1
	12	16 11 44.84	2 50.10	−20 50 19.0	7 53.2	2.082 452	7 647	8 47.0
	13	16 14 34.94	2 50.48	20 58 12.2	7 43.1	2.074 805	7 673	8 45.9
	14	16 17 25.42	2 50.86	21 5 55.3	7 32.8	2.067 132	7 698	8 44.8
	15	16 20 16.28	2 51.23	21 13 28.1	7 22.5	2.059 434	7 723	8 43.7
	16	16 23 7.51	2 51.61	21 20 50.6	7 12.0	2.051 711	7 748	8 42.6
	17	16 25 59.12	2 51.97	21 28 2.6	7 1.6	2.043 963	7 773	8 41.5
	18	16 28 51.09	2 52.34	−21 35 4.2	6 50.9	2.036 190	7 797	8 40.4
	19	16 31 43.43	2 52.69	21 41 55.1	6 40.3	2.028 393	7 821	8 39.4
	20	16 34 36.12	2 53.04	21 48 35.4	6 29.4	2.020 572	7 845	8 38.3
	21	16 37 29.16	2 53.39	21 55 4.8	6 18.6	2.012 727	7 868	8 37.2
	22	16 40 22.55	2 53.71	22 1 23.4	6 7.6	2.004 859	7 891	8 36.2
	23	16 43 16.26	2 54.05	22 7 31.0	5 56.6	1.996 968	7 913	8 35.2
	24	16 46 10.31	2 54.36	−22 13 27.6	5 45.4	1.989 055	7 935	8 34.1
	25	16 49 4.67	2 54.66	22 19 13.0	5 34.3	1.981 120	7 957	8 33.1
	26	16 51 59.33	2 54.97	22 24 47.3	5 22.9	1.973 163	7 976	8 32.0
	27	16 54 54.30	2 55.25	22 30 10.2	5 11.6	1.965 187	7 997	8 31.0
	28	16 57 49.55	2 55.54	22 35 21.8	5 0.1	1.957 190	8 014	8 30.0
	29	17 0 45.09	2 55.81	22 40 21.9	4 48.6	1.949 176	8 033	8 29.0
	30	17 3 40.90	2 56.08	−22 45 10.5	4 37.1	1.941 143	8 049	8 28.0
	31	17 6 36.98	2 56.33	22 49 47.6	4 25.3	1.933 094	8 065	8 27.0
Febr.	1	17 9 33.31	2 56.58	22 54 12.9	4 13.7	1.925 029	8 080	8 26.0
	2	17 12 29.89	2 56.82	22 58 26.6	4 1.9	1.916 949	8 095	8 25.0
	3	17 15 26.71	2 57.06	23 2 28.5	3 50.0	1.908 854	8 108	8 24.0
	4	17 18 23.77	2 57.29	23 6 18.5	3 38.1	1.900 746	8 120	8 23.0
	5	17 21 21.06	2 57.51	−23 9 56.6	3 26.2	1.892 626	8 133	8 22.0
	6	17 24 18.57	2 57.72	23 13 22.8	3 14.2	1.884 493	8 144	8 21.0
	7	17 27 16.29	2 57.93	23 16 37.0	3 2.2	1.876 349	8 154	8 20.0
	8	17 30 14.22	2 58.13	23 19 39.2	2 50.0	1.868 195	8 164	8 19.1
	9	17 33 12.35	2 58.32	23 22 29.2	2 38.0	1.860 031	8 174	8 18.1
	10	17 36 10.67		−23 25 7.2		1.851 857		8 17.1

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Febr.	10	17 36 10.67	2 58.52	−23 25 7.2	2 25.7	1.851 857	8 182	8 17.1
	11	17 39 9.19	2 58.69	23 27 32.9	2 13.6	1.843 675	8 191	8 16.2
	12	17 42 7.88	2 58.87	23 29 46.5	2 1.3	1.835 484	8 199	8 15.2
	13	17 45 6.75	2 59.04	23 31 47.8	1 49.0	1.827 285	8 206	8 14.2
	14	17 48 5.79	2 59.19	23 33 36.8	1 36.7	1.819 079	8 215	8 13.3
	15	17 51 4.98	2 59.34	23 35 13.5	1 24.5	1.810 864	8 222	8 12.3
	16	17 54 4.32	2 59.47	−23 36 38.0	1 12.0	1.802 642	8 230	8 11.4
	17	17 57 3.79	2 59.60	23 37 50.0	0 59.8	1.794 412	8 236	8 10.4
	18	18 0 3.39	2 59.72	23 38 49.8	0 47.3	1.786 176	8 243	8 9.5
	19	18 3 3.11	2 59.82	23 39 37.1	0 34.9	1.777 933	8 250	8 8.5
	20	18 6 2.93	2 59.90	23 40 12.0	0 22.5	1.769 683	8 256	8 7.6
	21	18 9 2.83	2 59.98	23 40 34.5	0 10.1	1.761 427	8 261	8 6.6
	22	18 12 2.81	3 0.05	−23 40 44.6	0 2.3	1.753 166	8 266	8 5.7
	23	18 15 2.86	3 0.09	23 40 42.3	0 14.7	1.744 900	8 270	8 4.8
	24	18 18 2.95	3 0.13	23 40 27.6	0 27.1	1.736 630	8 274	8 3.8
	25	18 21 3.08	3 0.15	23 40 0.5	0 39.6	1.728 356	8 276	8 2.9
	26	18 24 3.23	3 0.17	23 39 20.9	0 52.0	1.720 080	8 278	8 1.9
	27	18 27 3.40	3 0.17	23 38 28.9	1 4.3	1.711 802	8 279	8 1.0
	28	18 30 3.57	3 0.16	−23 37 24.6	1 16.8	1.703 523	8 279	8 0.1
März	1	18 33 3.73	3 0.14	23 36 7.8	1 29.1	1.695 244	8 279	7 59.1
	2	18 36 3.87	3 0.10	23 34 38.7	1 41.5	1.686 965	8 278	7 58.2
	3	18 39 3.97	3 0.07	23 32 57.2	1 53.8	1.678 687	8 276	7 57.2
	4	18 42 4.04	3 0.03	23 31 3.4	2 6.1	1.670 411	8 272	7 56.3
	5	18 45 4.07	2 59.96	23 28 57.3	2 18.4	1.662 139	8 270	7 55.4
	6	18 48 4.03	2 59.90	−23 26 38.9	2 30.6	1.653 869	8 265	7 54.4
	7	18 51 3.93	2 59.82	23 24 8.3	2 42.9	1.645 604	8 260	7 53.5
	8	18 54 3.75	2 59.74	23 21 25.4	2 55.0	1.637 344	8 255	7 52.5
	9	18 57 3.49	2 59.66	23 18 30.4	3 7.2	1.629 089	8 249	7 51.6
	10	19 0 3.15	2 59.56	23 15 23.2	3 19.3	1.620 840	8 243	7 50.6
	11	19 3 2.71	2 59.45	23 12 3.9	3 31.3	1.612 597	8 236	7 49.7
	12	19 6 2.16	2 59.35	−23 8 32.6	3 43.4	1.604 361	8 229	7 48.7
	13	19 9 1.51	2 59.23	23 4 49.2	3 55.4	1.596 132	8 222	7 47.8
	14	19 12 0.74	2 59.11	23 0 53.8	4 7.2	1.587 910	8 215	7 46.8
	15	19 14 59.85	2 58.98	22 56 46.6	4 19.1	1.579 695	8 207	7 45.9
	16	19 17 58.83	2 58.84	22 52 27.5	4 30.9	1.571 488	8 200	7 44.9
	17	19 20 57.67	2 58.69	22 47 56.6	4 42.6	1.563 288	8 192	7 43.9
	18	19 23 56.36	2 58.52	−22 43 14.0	4 54.2	1.555 096	8 185	7 43.0
	19	19 26 54.88	2 58.35	22 38 19.8	5 5.8	1.546 911	8 177	7 42.0
	20	19 29 53.23	2 58.17	22 33 14.0	5 17.3	1.538 734	8 170	7 41.0
	21	19 32 51.40	2 57.97	22 27 56.7	5 28.6	1.530 564	8 160	7 40.1
	22	19 35 49.37	2 57.77	22 22 28.1	5 40.0	1.522 404	8 152	7 39.1
	23	19 38 47.14		−22 16 48.1		1.514 252		7 38.1

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
März	23	19 38 47.14	2 57.54	−22 16 48.1	5 51.2	1.514 252	8 143	7 38.1
	24	19 41 44.68	2 57.31	22 10 56.9	6 2.4	1.506 109	8 132	7 37.1
	25	19 44 41.99	2 57.07	22 4 54.5	6 13.4	1.497 977	8 123	7 36.1
	26	19 47 39.06	2 56.83	21 58 41.1	6 24.3	1.489 854	8 111	7 35.1
	27	19 50 35.89	2 56.56	21 52 16.8	6 35.2	1.481 743	8 099	7 34.1
	28	19 53 32.45	2 56.29	21 45 41.6	6 45.9	1.473 644	8 087	7 33.1
	29	19 56 28.74	2 56.02	−21 38 55.7	6 56.6	1.465 557	8 074	7 32.1
	30	19 59 24.76	2 55.74	21 31 59.1	7 7.2	1.457 483	8 061	7 31.1
	31	20 2 20.50	2 55.44	21 24 51.9	7 17.6	1.449 422	8 046	7 30.1
April	1	20 5 15.94	2 55.15	21 17 34.3	7 28.1	1.441 376	8 032	7 29.1
	2	20 8 11.09	2 54.85	21 10 6.2	7 38.2	1.433 344	8 017	7 28.1
	3	20 11 5.94	2 54.54	21 2 28.0	7 48.4	1.425 327	8 000	7 27.1
	4	20 14 0.48	2 54.22	−20 54 39.6	7 58.5	1.417 327	7 984	7 26.0
	5	20 16 54.70	2 53.91	20 46 41.1	8 8.4	1.409 343	7 967	7 25.0
	6	20 19 48.61	2 53.60	20 38 32.7	8 18.2	1.401 376	7 950	7 23.9
	7	20 22 42.21	2 53.27	20 30 14.5	8 27.9	1.393 426	7 932	7 22.9
	8	20 25 35.48	2 52.95	20 21 46.6	8 37.6	1.385 494	7 914	7 21.8
	9	20 28 28.43	2 52.63	20 13 9.0	8 47.0	1.377 580	7 895	7 20.8
	10	20 31 21.06	2 52.30	−20 4 22.0	8 56.4	1.369 685	7 878	7 19.7
	11	20 34 13.36	2 51.97	19 55 25.6	9 5.7	1.361 807	7 860	7 18.6
	12	20 37 5.33	2 51.64	19 46 19.9	9 14.8	1.353 947	7 841	7 17.6
	13	20 39 56.97	2 51.31	19 37 5.1	9 23.8	1.346 106	7 823	7 16.5
	14	20 42 48.28	2 50.96	19 27 41.3	9 32.7	1.338 283	7 806	7 15.4
	15	20 45 39.24	2 50.61	19 18 8.6	9 41.4	1.330 477	7 788	7 14.3
	16	20 48 29.85	2 50.26	−19 8 27.2	9 49.9	1.322 689	7 770	7 13.2
	17	20 51 20.11	2 49.91	18 58 37.3	9 58.4	1.314 919	7 753	7 12.1
	18	20 54 10.02	2 49.53	18 48 38.9	10 6.6	1.307 166	7 735	7 11.0
	19	20 56 59.55	2 49.16	18 38 32.3	10 14.7	1.299 431	7 717	7 9.9
	20	20 59 48.71	2 48.77	18 28 17.6	10 22.7	1.291 714	7 698	7 8.7
	21	21 2 37.48	2 48.38	18 17 54.9	10 30.5	1.284 016	7 680	7 7.6
	22	21 5 25.86	2 47.98	−18 7 24.4	10 38.2	1.276 336	7 661	7 6.5
	23	21 8 13.84	2 47.59	17 56 46.2	10 45.6	1.268 675	7 641	7 5.3
	24	21 11 1.43	2 47.17	17 46 0.6	10 52.9	1.261 034	7 622	7 4.2
	25	21 13 48.60	2 46.76	17 35 7.7	11 0.2	1.253 412	7 601	7 3.0
	26	21 16 35.36	2 46.34	17 24 7.5	11 7.2	1.245 811	7 581	7 1.8
	27	21 19 21.70	2 45.92	17 13 0.3	11 14.1	1.238 230	7 560	7 0.7
	28	21 22 7.62	2 45.50	−17 1 46.2	11 20.7	1.230 670	7 538	6 59.5
	29	21 24 53.12	2 45.07	16 50 25.5	11 27.4	1.223 132	7 517	6 58.3
	30	21 27 38.19	2 44.64	16 38 58.1	11 33.7	1.215 615	7 494	6 57.1
Mai	1	21 30 22.83	2 44.20	16 27 24.4	11 40.0	1.208 121	7 471	6 55.9
	2	21 33 7.03	2 43.77	16 15 44.4	11 46.1	1.200 650	7 449	6 54.7
	3	21 35 50.80		−16 3 58.3		1.193 201		6 53.5

Mars 1941

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Mai	3	21 35 50.80	2 43.34	−16 3 58.3	11 52.0	1.193 201	7 425	6 53.5
	4	21 38 34.14	2 42.91	15 52 6.3	11 57.8	1.185 776	7 401	6 52.3
	5	21 41 17.05	2 42.47	15 40 8.5	12 3.5	1.178 375	7 377	6 51.0
	6	21 43 59.52	2 42.04	15 28 5.0	12 9.0	1.170 998	7 353	6 49.8
	7	21 46 41.56	2 41.62	15 15 56.0	12 14.3	1.163 645	7 329	6 48.6
	8	21 49 23.18	2 41.19	15 3 41.7	12 19.6	1.156 316	7 304	6 47.3
	9	21 52 4.37	2 40.76	−14 51 22.1	12 24.5	1.149 012	7 281	6 46.1
	10	21 54 45.13	2 40.34	14 38 57.6	12 29.5	1.141 731	7 257	6 44.8
	11	21 57 25.47	2 39.92	14 26 28.1	12 34.2	1.134 474	7 234	6 43.5
	12	22 0 5.39	2 39.49	14 13 53.9	12 38.7	1.127 240	7 210	6 42.2
	13	22 2 44.88	2 39.05	14 1 15.2	12 43.0	1.120 030	7 188	6 41.0
	14	22 5 23.93	2 38.63	13 48 32.2	12 47.3	1.112 842	7 165	6 39.7
	15	22 8 2.56	2 38.18	−13 35 44.9	12 51.2	1.105 677	7 143	6 38.4
	16	22 10 40.74	2 37.73	13 22 53.7	12 55.0	1.098 534	7 121	6 37.1
	17	22 13 18.47	2 37.28	13 9 58.7	12 58.5	1.091 413	7 099	6 35.7
	18	22 15 55.75	2 36.82	12 57 0.2	13 2.0	1.084 314	7 076	6 34.4
	19	22 18 32.57	2 36.36	12 43 58.2	13 5.2	1.077 238	7 054	6 33.1
	20	22 21 8.93	2 35.88	12 30 53.0	13 8.2	1.070 184	7 032	6 31.8
	21	22 23 44.81	2 35.41	−12 17 44.8	13 11.1	1.063 152	7 009	6 30.4
	22	22 26 20.22	2 34.92	12 4 33.7	13 13.6	1.056 143	6 986	6 29.1
	23	22 28 55.14	2 34.43	11 51 20.1	13 16.1	1.049 157	6 963	6 27.7
	24	22 31 29.57	2 33.93	11 38 4.0	13 18.3	1.042 194	6 939	6 26.3
	25	22 34 3.50	2 33.44	11 24 45.7	13 20.4	1.035 255	6 916	6 25.0
	26	22 36 36.94	2 32.93	11 11 25.3	13 22.3	1.028 339	6 893	6 23.6
	27	22 39 9.87	2 32.42	−10 58 3.0	13 24.0	1.021 446	6 868	6 22.2
	28	22 41 42.29	2 31.92	10 44 39.0	13 25.5	1.014 578	6 843	6 20.8
	29	22 44 14.21	2 31.39	10 31 13.5	13 26.8	1.007 735	6 819	6 19.4
	30	22 46 45.60	2 30.87	10 17 46.7	13 27.9	1.000 916	6 794	6 17.9
	31	22 49 16.47	2 30.36	10 4 18.8	13 29.0	0.994 122	6 769	6 16.5
Juni	1	22 51 46.83	2 29.83	9 50 49.8	13 29.7	0.987 353	6 743	6 15.1
	2	22 54 16.66	2 29.31	− 9 37 20.1	13 30.4	0.980 610	6 718	6 13.6
	3	22 56 45.97	2 28.78	9 23 49.7	13 30.9	0.973 892	6 693	6 12.2
	4	22 59 14.75	2 28.26	9 10 18.8	13 31.2	0.967 199	6 666	6 10.7
	5	23 1 43.01	2 27.74	8 56 47.6	13 31.3	0.960 533	6 641	6 9.2
	6	23 4 10.75	2 27.22	8 43 16.3	13 31.3	0.953 892	6 616	6 7.8
	7	23 6 37.97	2 26.69	8 29 45.0	13 31.1	0.947 276	6 591	6 6.3
	8	23 9 4.66	2 25.15	− 8 16 13.9	13 30.7	0.940 685	6 567	6 4.8
	9	23 11 30.81	2 25.62	8 2 43.2	13 30.2	0.934 118	6 542	6 3.3
	10	23 13 56.43	2 25.09	7 49 13.0	13 29.4	0.927 576	6 519	6 1.7
	11	23 16 21.52	2 24.53	7 35 43.6	13 28.4	0.921 057	6 495	6 0.2
	12	23 18 46.05	2 23.98	7 22 15.2	13 27.3	0.914 562	6 473	5 58.7
	13	23 21 10.03		− 7 8 47.9		0.908 089		5 57.1

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Juni	13	23 21 10.03	2 23.40	−7 8 47.9	13 25.8	0.908 089	6 450	5 57.1
	14	23 23 33.43	2 22.82	6 55 22.1	13 24.3	0.901 639	6 427	5 55.6
	15	23 25 56.25	2 22.22	6 41 57.8	13 22.4	0.895 212	6 404	5 54.0
	16	23 28 18.47	2 21.62	6 28 35.4	13 20.4	0.888 808	6 383	5 52.4
	17	23 30 40.09	2 20.99	6 15 15.0	13 18.2	0.882 425	6 360	5 50.9
	18	23 33 1.08	2 20.35	6 1 56.8	13 15.7	0.876 065	6 337	5 49.3
	19	23 35 21.43	2 19.71	−5 48 41.1	13 13.0	0.869 728	6 315	5 47.7
	20	23 37 41.14	2 19.04	5 35 28.1	13 10.2	0.863 413	6 292	5 46.1
	21	23 40 0.18	2 18.36	5 22 17.9	13 7.0	0.857 121	6 269	5 44.4
	22	23 42 18.54	2 17.67	5 9 10.9	13 3.8	0.850 852	6 246	5 42.8
	23	23 44 36.21	2 16.97	4 56 7.1	13 0.3	0.844 606	6 222	5 41.1
	24	23 46 53.18	2 16.24	4 43 6.8	12 56.6	0.838 384	6 199	5 39.5
	25	23 49 9.42	2 15.51	−4 30 10.2	12 52.7	0.832 185	6 175	5 37.8
	26	23 51 24.93	2 14.76	4 17 17.5	12 48.6	0.826 010	6 151	5 36.1
	27	23 53 39.69	2 14.01	4 4 28.9	12 44.4	0.819 859	6 126	5 34.4
	28	23 55 53.70	2 13.23	3 51 44.5	12 39.9	0.813 733	6 101	5 32.7
	29	23 58 6.93	2 12.45	3 39 4.6	12 35.3	0.807 632	6 076	5 31.0
	30	0 0 19.38	2 11.66	3 26 29.3	12 30.5	0.801 556	6 051	5 29.3
Juli	1	0 2 31.04	2 10.85	−3 13 58.8	12 25.5	0.795 505	6 026	5 27.5
	2	0 4 41.89	2 10.03	3 1 33.3	12 20.5	0.789 479	6 000	5 25.7
	3	0 6 51.92	2 19.20	2 49 12.8	12 15.1	0.783 479	5 975	5 24.0
	4	0 9 1.12	2 8.36	2 36 57.7	12 9.6	0.777 504	5 949	5 22.2
	5	0 11 9.48	2 7.52	2 24 48.1	12 4.1	0.771 555	5 924	5 20.4
	6	0 13 17.00	2 6.64	2 12 44.0	11 58.3	0.765 631	5 899	5 18.6
	7	0 15 23.64	2 5.76	−2 0 45.7	11 52.3	0.759 732	5 875	5 16.7
	8	0 17 29.40	2 4.85	1 48 53.4	11 46.1	0.753 857	5 850	5 14.9
	9	0 19 34.25	2 3.93	1 37 7.3	11 39.7	0.748 007	5 827	5 13.0
	10	0 21 38.18	2 2.98	1 25 27.6	11 33.1	0.742 180	5 803	5 11.1
	11	0 23 41.16	2 2.00	1 13 54.5	11 26.3	0.736 377	5 779	5 9.2
	12	0 25 43.16	2 0.99	1 2 28.2	11 19.3	0.730 598	5 755	5 7.3
	13	0 27 44.15	1 59.95	−0 51 8.9	11 12.1	0.724 843	5 732	5 5.4
	14	0 29 44.10	1 58.89	0 39 56.8	11 4.6	0.719 111	5 708	5 3.5
	15	0 31 42.99	1 57.79	0 28 52.2	10 56.9	0.713 403	5 685	5 1.5
	16	0 33 40.78	1 56.66	0 17 55.3	10 49.0	0.707 718	5 660	4 59.5
	17	0 35 37.44	1 55.49	−0 7 6.3	10 40.9	0.702 058	5 636	4 57.5
	18	0 37 32.93	1 54.29	+0 3 34.6	10 32.5	0.696 422	5 611	4 55.5
	19	0 39 27.22	1 53.06	+0 14 7.1	10 24.1	0.690 811	5 586	4 53.5
	20	0 41 20.28	1 51.80	0 24 31.2	10 15.3	0.685 225	5 560	4 51.4
	21	0 43 12.08	1 50.49	0 34 46.5	10 6.4	0.679 665	5 534	4 49.3
	22	0 45 2.57	1 49.16	0 44 52.9	9 57.2	0.674 131	5 507	4 47.2
	23	0 46 51.73	1 47.79	0 54 50.1	9 47.9	0.668 624	5 479	4 45.1
	24	0 48 39.52		+1 4 38.0		0.663 145		4 42.9

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Juli	24	0 48 39.52	1 46.38	+1 4 38.0	9 38.4	0.663 145	5 452	4 42.9
	25	0 50 25.90	1 44.93	1 14 16.4	9 28.7	0.657 693	5 423	4 40.8
	26	0 52 10.83	1 43.46	1 23 45.1	9 18.9	0.652 270	5 393	4 38.6
	27	0 53 54.29	1 41.95	1 33 4.0	9 8.9	0.646 877	5 363	4 36.4
	28	0 55 36.24	1 40.41	1 42 12.9	8 58.7	0.641 514	5 332	4 34.1
	29	0 57 16.65	1 38.83	1 51 11.6	8 48.3	0.636 182	5 301	4 31.8
	30	0 58 55.48	1 37.23	+1 59 59.9	8 38.0	0.630 881	5 268	4 29.5
	31	1 0 32.71	1 35.59	2 8 37.9	8 27.3	0.625 613	5 236	4 27.2
Aug.	1	1 2 8.30	1 33.91	2 17 5.2	8 16.6	0.620 377	5 203	4 24.9
	2	1 3 42.21	1 32.20	2 25 21.8	8 5.6	0.615 174	5 169	4 22.5
	3	1 5 14.41	1 30.45	2 33 27.4	7 54.7	0.610 005	5 136	4 20.1
	4	1 6 44.86	1 28.67	2 41 22.1	7 43.5	0.604 869	5 101	4 17.6
	5	1 8 13.53	1 26.83	+2 49 5.6	7 32.0	0.599 768	5 067	4 15.2
	6	1 9 40.36	1 24.95	2 56 37.6	7 20.6	0.594 701	5 033	4 12.7
	7	1 11 5.31	1 23.01	3 3 58.2	7 8.8	0.589 668	4 997	4 10.2
	8	1 12 28.32	1 21.04	3 11 7.0	6 56.9	0.584 671	4 961	4 7.6
	9	1 13 49.36	1 19.00	3 18 3.9	6 44.8	0.579 710	4 925	4 5.0
	10	1 15 8.36	1 16.91	3 24 48.7	6 32.5	0.574 785	4 888	4 2.4
	11	1 16 25.27	1 14.75	+3 31 21.2	6 20.0	0.569 897	4 849	3 59.7
	12	1 17 40.02	1 12.54	3 37 41.2	6 7.2	0.565 048	4 810	3 57.0
	13	1 18 52.56	1 10.27	3 43 48.4	5 54.4	0.560 238	4 770	3 54.3
	14	1 20 2.83	1 7.94	3 49 42.8	5 41.4	0.555 468	4 729	3 51.5
	15	1 21 10.77	1 5.56	3 55 24.2	5 28.1	0.550 739	4 686	3 48.7
	16	1 22 16.33	1 3.10	4 0 52.3	5 14.6	0.546 053	4 642	3 45.8
	17	1 23 19.43	1 0.59	+4 6 6.9	5 1.1	0.541 411	4 596	3 42.9
	18	1 24 20.02	0 58.03	4 11 8.0	4 47.5	0.536 815	4 549	3 40.0
	19	1 25 18.05	0 55.40	4 15 55.5	4 33.5	0.532 266	4 500	3 37.0
	20	1 26 13.45	0 52.72	4 20 29.0	4 19.5	0.527 766	4 449	3 34.0
	21	1 27 6.17	0 49.98	4 24 48.5	4 5.3	0.523 317	4 397	3 31.0
	22	1 27 56.15	0 47.20	4 28 53.8	3 51.2	0.518 920	4 342	3 27.9
	23	1 28 43.35	0 44.35	+4 32 45.0	3 36.8	0.514 578	4 286	3 24.7
	24	1 29 27.70	0 41.46	4 36 21.8	3 22.5	0.510 292	4 227	3 21.5
	25	1 30 9.16	0 38.53	4 39 44.3	3 8.0	0.506 065	4 167	3 18.2
	26	1 30 47.69	0 35.56	4 42 52.3	2 53.6	0.501 898	4 104	3 14.9
	27	1 31 23.25	0 32.56	4 45 45.9	2 39.1	0.497 794	4 040	3 11.6
	28	1 31 55.81	0 29.52	4 48 25.0	2 24.7	0.493 754	3 973	3 8.2
	29	1 32 25.33	0 26.44	+4 50 49.7	2 10.1	0.489 781	3 905	3 4.7
	30	1 32 51.77	0 23.33	4 52 59.8	1 55.7	0.485 876	3 836	3 1.2
	31	1 33 15.10	0 20.18	4 54 55.5	1 41.1	0.482 040	3 763	2 57.7
Sept.	1	1 33 35.28	0 17.00	4 56 36.6	1 26.7	0.478 277	3 690	2 54.1
	2	1 33 52.28	0 13.79	4 58 3.3	1 12.2	0.474 587	3 614	2 50.4
	3	1 34 6.07		+4 59 15.5		0.470 973		2 46.7

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	m s	° ′ ″	′ ″			h m
Sept.	3	1 34 6.07	0 10.55	+4 59 15.5	0 57.8	0.470 973	3 537	2 46.7
	4	1 34 16.62	0 7.28	5 0 13.3	0 43.5	0.467 436	3 458	2 43.0
	5	1 34 23.90	0 3.97	5 0 56.8	0 29.0	0.463 978	3 376	2 39.1
	6	1 34 27.87	0 0.64	5 1 25.8	0 14.6	0.460 602	3 291	2 35.3
	7	1 34 28.51	0 2.71	5 1 40.4	0 0.3	0.457 311	3 206	2 31.3
	8	1 34 25.80	0 6.09	5 1 40.7	0 13.8	0.454 105	3 116	2 27.4
	9	1 34 19.71	0 9.48	+5 1 26.9	0 27.9	0.450 989	3 025	2 23.3
	10	1 34 10.23	0 12.87	5 0 59.0	0 41.8	0.447 964	2 931	2 19.2
	11	1 33 57.36	0 16.26	5 0 17.2	0 55.6	0.445 033	2 833	2 15.1
	12	1 33 41.10	0 19.65	4 59 21.6	1 9.2	0.442 200	2 733	2 10.9
	13	1 33 21.45	0 23.03	4 58 12.4	1 22.6	0.439 467	2 630	2 6.6
	14	1 32 58.42	0 26.38	4 56 49.8	1 35.6	0.436 837	2 524	2 2.3
	15	1 32 32.04	0 29.70	+4 55 14.2	1 48.3	0.434 313	2 415	1 57.9
	16	1 32 2.34	0 32.98	4 53 25.9	2 0.8	0.431 898	2 302	1 53.5
	17	1 31 29.36	0 36.21	4 51 25.1	2 12.9	0.429 596	2 186	1 49.0
	18	1 30 53.15	0 39.37	4 49 12.2	2 24.4	0.427 410	2 067	1 44.5
	19	1 30 13.78	0 42.47	4 46 47.8	2 35.5	0.425 343	1 945	1 39.9
	20	1 29 31.31	0 45.47	4 44 12.3	2 46.1	0.423 398	1 819	1 35.3
	21	1 28 45.84	0 48.38	+4 41 26.2	2 55.9	0.421 579	1 691	1 30.6
	22	1 27 57.46	0 51.17	4 38 30.3	3 5.2	0.419 888	1 560	1 25.8
	23	1 27 6.29	0 53.84	4 35 25.1	3 13.8	0.418 328	1 426	1 21.0
	24	1 26 12.45	0 56.38	4 32 11.3	3 21.7	0.416 902	1 289	1 16.2
	25	1 25 16.07	0 58.79	4 28 49.6	3 28.9	0.415 613	1 150	1 11.3
	26	1 24 17.28	1 1.04	4 25 20.7	3 35.1	0.414 463	1 008	1 6.4
	27	1 23 16.24	1 3.16	+4 21 45.6	3 40.8	0.413 455	865	1 1.5
	28	1 22 13.08	1 5.11	4 18 4.8	3 45.5	0.412 590	721	0 56.5
	29	1 21 7.97	1 6.90	4 14 19.3	3 49.5	0.411 869	574	0 51.5
	30	1 20 1.07	1 8.53	4 10 29.8	3 52.7	0.411 295	425	0 46.5
Okt.	1	1 18 52.54	1 10.00	4 6 37.1	3 54.9	0.410 870	276	0 41.4
	2	1 17 42.54	1 11.30	4 2 42.2	3 56.4	0.410 594	124	0 36.3
	3	1 16 31.24	1 12.43	+3 58 45.8	3 57.1	0.410 470	29	0 31.2
	4	1 15 18.81	1 13.39	3 54 48.7	3 56.9	0.410 499	183	0 26.1
	5	1 14 5.42	1 14.17	3 50 51.8	3 55.8	0.410 682	338	0 20.9
	6	1 12 51.25	1 14.76	3 46 56.0	3 53.8	0.411 020	494	0 15.8
	7	1 11 36.49	1 15.18	3 43 2.2	3 51.1	0.411 514	652	0 10.6
	8	1 10 21.31	1 15.42	3 39 11.1	3 47.4	0.412 166	810	0 5.4
	9	1 9 5.89	1 15.46	+3 35 23.7	3 43.0	0.412 976	969	{0 0.2 / 23 55.0}
	10	1 7 50.43	1 15.31	3 31 40.7	3 37.5	0.413 945	1 129	23 49.9
	11	1 6 35.12	1 14.99	3 28 3.2	3 31.3	0.415 074	1 290	23 44.7
	12	1 5 20.13	1 14.47	3 24 31.9	3 24.4	0.416 364	1 451	23 39.5
	13	1 4 5.66	1 13.78	3 21 7.5	3 16.4	0.417 815	1 611	23 34.4
	14	1 2 51.88		+3 17 51.1		0.419 426		23 29.2

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Okt.	14	1 2 51.88	72.91	+3 17 51.1	3 7.8	0.419 426	1 774	23 29.2
	15	1 1 38.97	71.84	3 14 43.3	2 58.4	0.421 200	1 934	23 24.1
	16	1 0 27.13	70.61	3 11 44.9	2 48.3	0.423 134	2 095	23 19.0
	17	0 59 16.52	69.20	3 8 56.6	2 37.2	0.425 229	2 256	23 13.9
	18	0 58 7.32	67.62	3 6 19.4	2 25.6	0.427 485	2 416	23 8.9
	19	0 56 59.70	65.86	3 3 53.8	2 13.4	0.429 901	2 576	23 3.9
	20	0 55 53.84	63.97	+3 1 40.4	2 0.4	0.432 477	2 734	22 58.9
	21	0 54 49.87	61.91	2 59 40.0	1 46.7	0.435 211	2 890	22 53.9
	22	0 53 47.96	59.71	2 57 53.3	1 32.7	0.438 101	3 046	22 49.0
	23	0 52 48.25	57.38	2 56 20.6	1 18.2	0.441 147	3 199	22 44.1
	24	0 51 50.87	54.95	2 55 2.4	1 3.1	0.444 346	3 350	22 39.3
	25	0 50 55.92	52.40	2 53 59.3	0 47.8	0.447 696	3 500	22 34.5
	26	0 50 3.52	49.75	+2 53 11.5	0 32.0	0.451 196	3 646	22 29.7
	27	0 49 13.77	47.04	2 52 39.5	0 16.2	0.454 842	3 791	22 25.0
	28	0 48 26.73	44.26	2 52 23.3	0 0.1	0.458 633	3 933	22 20.3
	29	0 47 42.47	41.42	2 52 23.2	$\overline{0\ 16.2}$	0.462 566	4 073	22 15.7
	30	0 47 1.05	38.53	2 52 39.4	0 32.4	0.466 639	4 211	22 11.1
	31	0 46 22.52	35.59	2 53 11.8	0 48.8	0.470 850	4 346	22 6.6
Nov.	1	0 45 46.93	32.63	+2 54 0.6	1 5.3	0.475 196	4 479	22 2.1
	2	0 45 14.30	29.64	2 55 5.9	1 21.7	0.479 675	4 611	21 57.7
	3	0 44 44.66	26.64	2 56 27.6	1 38.0	0.484 286	4 739	21 53.3
	4	0 44 18.02	23.61	2 58 5.6	1 54.3	0.489 025	4 866	21 49.0
	5	0 43 54.41	20.58	2 59 59.9	2 10.6	0.493 891	4 990	21 44.7
	6	0 43 33.83	17.55	3 2 10.5	2 26.6	0.498 881	5 113	21 40.5
	7	0 43 16.28	14.52	+3 4 37.1	2 42.6	0.503 994	5 234	21 36.3
	8	0 43 1.76	11.48	3 7 19.7	2 58.5	0.509 228	5 352	21 32.2
	9	0 42 50.28	8.47	3 10 18.2	3 14.2	0.514 580	5 469	21 28.1
	10	0 42 41.81	5.46	3 13 32.4	3 29.7	0.520 049	5 584	21 24.1
	11	0 42 36.35	2.47	3 17 2.1	3 45.0	0.525 633	5 696	21 20.1
	12	0 42 33.88	$\overline{0.51}$	3 20 47.1	4 0.2	0.531 329	5 807	21 16.2
	13	0 42 34.39	3.47	+3 24 47.3	4 15.3	0.537 136	5 916	21 12.3
	14	0 42 37.86	6.42	3 29 2.6	4 30.0	0.543 052	6 023	21 8.4
	15	0 42 44.28	9.32	3 33 32.6	4 44.5	0.549 075	6 129	21 4.7
	16	0 42 53.60	12.22	3 38 17.1	4 58.9	0.555 204	6 231	21 0.9
	17	0 43 5.82	15.09	3 43 16.0	5 13.1	0.561 435	6 332	20 57.2
	18	0 43 20.91	17.94	3 48 29.1	5 27.0	0.567 767	6 431	20 53.6
	19	0 43 38.85	20.75	+3 53 56.1	5 40.8	0.574 198	6 527	20 50.0
	20	0 43 59.60	23.52	3 59 36.9	5 54.2	0.580 725	6 621	20 46.5
	21	0 44 23.12	26.26	4 5 31.1	6 7.4	0.587 346	6 712	20 43.0
	22	0 44 49.38	28.95	4 11 38.5	6 20.4	0.594 058	6 802	20 39.5
	23	0 45 18.33	31.60	4 17 58.9	6 33.0	0.600 860	6 888	20 36.1
	24	0 45 49.93		+4 24 31.9		0.607 748		20 32.7

Tag	0ʰ Welt-Zeit: Scheinbare Rektaszension		0ʰ Welt-Zeit: Scheinbare Deklination		0ʰ Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941	h m s	m s	° ′ ″	′ ″			h m
Nov. 24	0 45 49.93	0 34.18	+ 4 24 31.9	6 45.3	0.607 748	6 972	20 32.7
25	0 46 24.11	0 36.72	4 31 17.2	6 57.2	0.614 720	7 055	20 29.4
26	0 47 0.83	0 39.22	4 38 14.4	7 8.9	0.621 775	7 135	20 26.1
27	0 47 40.05	0 41.65	4 45 23.3	7 20.2	0.628 910	7 214	20 22.8
28	0 48 21.70	0 44.02	4 52 43.5	7 31.2	0.636 124	7 290	20 19.6
29	0 49 5.72	0 46.35	5 0 14.7	7 41.8	0.643 414	7 365	20 16.5
30	0 49 52.07	0 48.64	+ 5 7 56.5	7 52.2	0.650 779	7 438	20 13.3
Dez. 1	0 50 40.71	0 50.86	5 15 48.7	8 2.3	0.658 217	7 510	20 10.2
2	0 51 31.57	0 53.02	5 23 51.0	8 12.0	0.665 727	7 580	20 7.2
3	0 52 24.59	0 55.16	5 32 3.0	8 21.3	0.673 307	7 650	20 4.2
4	0 53 19.75	0 57.24	5 40 24.3	8 30.5	0.680 957	7 716	20 1.2
5	0 54 16.99	0 59.28	5 48 54.8	8 39.4	0.688 673	7 784	19 58.2
6	0 55 16.27	1 1.26	+ 5 57 34.2	8 47.8	0.696 457	7 848	19 55.3
7	0 56 17.53	1 3.21	6 6 22.0	8 56.1	0.704 305	7 912	19 52.4
8	0 57 20.74	1 5.11	6 15 18.1	9 4.1	0.712 217	7 975	19 49.5
9	0 58 25.85	1 6.99	6 24 22.2	9 11.9	0.720 192	8 036	19 46.7
10	0 59 32.84	1 8.81	6 33 34.1	9 19.3	0.728 228	8 097	19 43.9
11	1 0 41.65	1 10.61	6 42 53.4	9 26.5	0.736 325	8 157	19 41.2
12	1 1 52.26	1 12.37	+ 6 52 19.9	9 33.5	0.744 482	8 215	19 38.4
13	1 3 4.63	1 14.10	7 1 53.4	9 40.3	0.752 697	8 272	19 35.7
14	1 4 18.73	1 15.80	7 11 33.7	9 46.7	0.760 969	8 328	19 33.0
15	1 5 34.53	1 17.47	7 21 20.4	9 53.1	0.769 297	8 383	19 30.4
16	1 6 52.00	1 19.10	7 31 13.5	9 59.2	0.777 680	8 436	19 27.8
17	1 8 11.10	1 20.72	7 41 12.7	10 5.0	0.786 116	8 488	19 25.2
18	1 9 31.82	1 22.30	+ 7 51 17.7	10 10.7	0.794 604	8 538	19 22.6
19	1 10 54.12	1 23.84	8 1 28.4	10 16.1	0.803 142	8 587	19 20.0
20	1 12 17.96	1 25.37	8 11 44.5	10 21.3	0.811 729	8 634	19 17.5
21	1 13 43.33	1 26.84	8 22 5.8	10 26.2	0.820 363	8 680	19 15.0
22	1 15 10.17	1 28.29	8 32 32.0	10 30.9	0.829 043	8 723	19 12.6
23	1 16 38.46	1 29.70	8 43 2.9	10 35.4	0.837 766	8 766	19 10.1
24	1 18 8.16	1 31.08	+ 8 53 38.3	10 39.5	0.846 532	8 808	19 7.7
25	1 19 39.24	1 32.43	9 4 17.8	10 43.5	0.855 340	8 847	19 5.3
26	1 21 11.67	1 33.74	9 15 1.3	10 47.2	0.864 187	8 887	19 2.9
27	1 22 45.41	1 35.02	9 25 48.5	10 50.7	0.873 074	8 924	19 0.5
28	1 24 20.43	1 36.27	9 36 39.2	10 53.8	0.881 998	8 962	18 58.2
29	1 25 56.70	1 37.50	9 47 33.0	10 56.9	0.890 960	8 998	18 55.9
30	1 27 34.20	1 38.69	+ 9 58 29.9	10 59.7	0.899 958	9 033	18 53.6
31	1 29 12.89	1 39.85	10 9 29.6	11 2.2	0.908 991	9 067	18 51.3
32	1 30 52.74		+10 20 31.8		0.918 058		18 49.0

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Jan.	0	2 15 5.60	0.06	+12 18 8.5	0 19.2	4.466 483	14 526	19 34.8
	1	2 15 5.54	0.76	12 18 27.7	0 23.5	4.481 009	14 645	19 30.9
	2	2 15 6.30	1.56	12 18 51.2	0 27.6	4.495 654	14 760	19 27.0
	3	2 15 7.86	2.38	12 19 18.8	0 31.7	4.510 414	14 869	19 23.1
	4	2 15 10.24	3.18	12 19 50.5	0 35.9	4.525 283	14 974	19 19.2
	5	2 15 13.42	3.98	12 20 26.4	0 40.0	4.540 257	15 073	19 15.3
	6	2 15 17.40	4.78	+12 21 6.4	0 44.0	4.555 330	15 168	19 11.5
	7	2 15 22.18	5.58	12 21 50.4	0 48.0	4.570 498	15 258	19 7.6
	8	2 15 27.76	6.38	12 22 38.4	0 52.1	4.585 756	15 341	19 3.8
	9	2 15 34.14	7.16	12 23 30.5	0 56.1	4.601 097	15 422	19 0.0
	10	2 15 41.30	7.94	12 24 26.6	1 0.1	4.616 519	15 497	18 56.2
	11	2 15 49.24	8.73	12 25 26.7	1 4.0	4.632 016	15 568	18 52.4
	12	2 15 57.97	9.50	+12 26 30.7	1 7.8	4.647 584	15 635	18 48.6
	13	2 16 7.47	10.27	12 27 38.5	1 11.7	4.663 219	15 697	18 44.8
	14	2 16 17.74	11.03	12 28 50.2	1 15.5	4.678 916	15 755	18 41.1
	15	2 16 28.77	11.80	12 30 5.7	1 19.3	4.694 671	15 808	18 37.4
	16	2 16 40.57	12.56	12 31 25.0	1 23.1	4.710 479	15 859	18 33.6
	17	2 16 53.13	13.30	12 32 48.1	1 26.7	4.726 338	15 904	18 29.9
	18	2 17 6.43	14.06	+12 34 14.8	1 30.5	4.742 242	15 945	18 26.2
	19	2 17 20.49	14.79	12 35 45.3	1 34.0	4.758 187	15 982	18 22.5
	20	2 17 35.28	15.53	12 37 19.3	1 37.7	4.774 169	16 015	18 18.8
	21	2 17 50.81	16.28	12 38 57.0	1 41.2	4.790 184	16 043	18 15.2
	22	2 18 7.09	17.00	12 40 38.2	1 44.8	4.806 227	16 067	18 11.5
	23	2 18 24.09	17.72	12 42 23.0	1 48.2	4.822 294	16 088	18 7.9
	24	2 18 41.81	18.45	+12 44 11.2	1 51.6	4.838 382	16 102	18 4.3
	25	2 19 0.26	19.16	12 46 2.8	1 55.1	4.854 484	16 112	18 0.7
	26	2 19 19.42	19.87	12 47 57.9	1 58.3	4.870 596	16 119	17 57.0
	27	2 19 39.29	20.57	12 49 56.2	2 1.7	4.886 715	16 120	17 53.4
	28	2 19 59.86	21.27	12 51 57.9	2 5.0	4.902 835	16 117	17 49.8
	29	2 20 21.13	21.95	12 54 2.9	2 8.1	4.918 952	16 109	17 46.3
	30	2 20 43.08	22.64	+12 56 11.0	2 11.3	4.935 061	16 098	17 42.7
	31	2 21 5.72	23.31	12 58 22.3	2 14.4	4.951 159	16 082	17 39.2
Febr.	1	2 21 29.03	23.98	13 0 36.7	2 17.4	4.967 241	16 061	17 35.7
	2	2 21 53.01	24.64	13 2 54.1	2 20.5	4.983 302	16 038	17 32.1
	3	2 22 17.65	25.29	13 5 14.6	2 23.3	4.999 340	16 010	17 28.6
	4	2 22 42.94	25.94	13 7 37.9	2 26.3	5.015 350	15 978	17 25.1
	5	2 23 8.88	26.56	+13 10 4.2	2 29.0	5.031 328	15 942	17 21.6
	6	2 23 35.44	27.20	13 12 33.2	2 31.8	5.047 270	15 904	17 18.1
	7	2 24 2.64	27.83	13 15 5.0	2 34.5	5.063 174	15 861	17 14.7
	8	2 24 30.47	28.43	13 17 39.5	2 37.3	5.079 035	15 815	17 11.2
	9	2 24 58.90	29.04	13 20 16.8	2 39.8	5.094 850	15 766	17 7.7
	10	2 25 27.94		+13 22 56.6		5.110 616		17 4.3

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Febr.	10	2 25 27.94	29.64	+13 22 56.6	2 42.3	5.110 616	15 713	17 4.3
	11	2 25 57.58	30.22	13 25 38.9	2 44.8	5.126 329	15 658	17 0.9
	12	2 26 27.80	30.81	13 28 23.7	2 47.3	5.141 987	15 599	16 57.4
	13	2 26 58.61	31.39	13 31 11.0	2 49.6	5.157 586	15 539	16 54.0
	14	2 27 30.00	31.96	13 34 0.6	2 52.0	5.173 125	15 473	16 50.6
	15	2 28 1.96	32.53	13 36 52.6	2 54.2	5.188 598	15 405	16 47.2
	16	2 28 34.49	33.08	+13 39 46.8	2 56.5	5.204 003	15 336	16 43.8
	17	2 29 7.57	33.63	13 42 43.3	2 58.7	5.219 339	15 262	16 40.5
	18	2 29 41.20	34.18	13 45 42.0	3 0.8	5.234 601	15 186	16 37.1
	19	2 30 15.38	34.73	13 48 42.8	3 2.9	5.249 787	15 105	16 33.7
	20	2 30 50.11	35.25	13 51 45.7	3 4.9	5.264 892	15 022	16 30.4
	21	2 31 25.36	35.79	13 54 50.6	3 6.9	5.279 914	14 937	16 27.0
	22	2 32 1.15	36.30	+13 57 57.5	3 8.8	5.294 851	14 845	16 23.7
	23	2 32 37.45	36.82	14 1 6.3	3 10.7	5.309 696	14 753	16 20.4
	24	2 33 14.27	37.33	14 4 17.0	3 12.6	5.324 449	14 657	16 17.1
	25	2 33 51.60	37.83	14 7 29.6	3 14.3	5.339 106	14 558	16 13.8
	26	2 34 29.43	38.32	14 10 43.9	3 16.0	5.353 664	14 456	16 10.5
	27	2 35 7.75	38.80	14 13 59.9	3 17.6	5.368 120	14 350	16 7.2
	28	2 35 46.55	39.29	+14 17 17.5	3 19.3	5.382 470	14 242	16 3.9
März	1	2 36 25.84	39.76	14 20 36.8	3 20.9	5.396 712	14 131	16 0.6
	2	2 37 5.60	40.22	14 23 57.7	3 22.3	5.410 843	14 016	15 57.3
	3	2 37 45.82	40.67	14 27 20.0	3 23.8	5.424 859	13 901	15 54.1
	4	2 38 26.49	41.13	14 30 43.8	3 25.2	5.438 760	13 782	15 50.8
	5	2 39 7.62	41.57	14 34 9.0	3 26.6	5.452 542	13 661	15 47.6
	6	2 39 49.19	42.00	+14 37 35.6	3 27.8	5.466 203	13 537	15 44.4
	7	2 40 31.19	42.43	14 41 3.4	3 29.1	5.479 740	13 410	15 41.1
	8	2 41 13.62	42.84	14 44 32.5	3 30.3	5.493 150	13 283	15 37.9
	9	2 41 56.46	43.26	14 48 2.8	3 31.4	5.506 433	13 154	15 34.7
	10	2 42 39.72	43.67	14 51 34.2	3 32.4	5.519 587	13 021	15 31.5
	11	2 43 23.39	44.07	14 55 6.6	3 33.5	5.532 608	12 888	15 28.3
	12	2 44 7.46	44.45	+14 58 40.1	3 34.5	5.545 496	12 752	15 25.1
	13	2 44 51.91	44.85	15 2 14.6	3 35.4	5.558 248	12 617	15 21.9
	14	2 45 36.76	45.23	15 5 50.0	3 36.4	5.570 865	12 477	15 18.7
	15	2 46 21.99	45.60	15 9 26.4	3 37.2	5.583 342	12 337	15 15.5
	16	2 47 7.59	45.97	15 13 3.6	3 38.0	5.595 679	12 195	15 12.3
	17	2 47 53.56	46.34	15 16 41.6	3 38.7	5.607 874	12 050	15 9.2
	18	2 48 39.90	46.70	+15 20 20.3	3 39.4	5.619 924	11 905	15 6.0
	19	2 49 26.60	47.05	15 23 59.7	3 40.2	5.631 829	11 757	15 2.9
	20	2 50 13.65	47.41	15 27 39.9	3 40.8	5.643 586	11 606	14 59.7
	21	2 51 1.06	47.75	15 31 20.7	3 41.3	5.655 192	11 455	14 56.6
	22	2 51 48.81	48.09	15 35 2.0	3 41.9	5.666 647	11 300	14 53.5
	23	2 52 36.90		+15 38 43.9		5.677 947		14 50.3

Jupiter 1941

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
März	23	2 52 36.90	48.42	+15 38 43.9	3 42.4	5.677 947	11 143	14 50.3
	24	2 53 25.32	48.75	15 42 26.3	3 42.9	5.689 090	10 986	14 47.2
	25	2 54 14.07	49.07	15 46 9.2	3 43.3	5.700 076	10 825	14 44.1
	26	2 55 3.14	49.39	15 49 52.5	3 43.7	5.710 901	10 663	14 41.0
	27	2 55 52.53	49.69	15 53 36.2	3 44.0	5.721 564	10 498	14 37.9
	28	2 56 42.22	50.00	15 57 20.2	3 44.3	5.732 062	10 334	14 34.7
	29	2 57 32.22	50.30	+16 1 4.5	3 44.6	5.742 396	10 166	14 31.6
	30	2 58 22.52	50.58	16 4 49.1	3 44.7	5.752 562	9 996	14 28.6
	31	2 59 13.10	50.86	16 8 33.8	3 44.9	5.762 558	9 827	14 25.5
April	1	3 0 3.96	51.15	16 12 18.7	3 45.0	5.772 385	9 655	14 22.4
	2	3 0 55.11	51.42	16 16 3.7	3 45.1	5.782 040	9 482	14 19.3
	3	3 1 46.53	51.68	16 19 48.8	3 45.2	5.791 522	9 309	14 16.2
	4	3 2 38.21	51.93	+16 23 34.0	3 45.1	5.800 831	9 133	14 13.1
	5	3 3 30.14	52.19	16 27 19.1	3 45.1	5.809 964	8 957	14 10.1
	6	3 4 22.33	52.44	16 31 4.2	3 45.0	5.818 921	8 780	14 7.0
	7	3 5 14.77	52.68	16 34 49.2	3 44.9	5.827 701	8 602	14 4.0
	8	3 6 7.45	52.91	16 38 34.1	3 44.7	5.836 303	8 424	14 0.9
	9	3 7 0.36	53.14	16 42 18.8	3 44.5	5.844 727	8 244	13 57.9
	10	3 7 53.50	53.37	+16 46 3.3	3 44.3	5.852 971	8 065	13 54.8
	11	3 8 46.87	53.59	16 49 47.6	3 44.0	5.861 036	7 884	13 51.7
	12	3 9 40.46	53.80	16 53 31.6	3 43.7	5.868 920	7 702	13 48.7
	13	3 10 34.26	54.02	16 57 15.3	3 43.4	5.876 622	7 521	13 45.7
	14	3 11 28.28	54.23	17 0 58.7	3 43.0	5.884 143	7 337	13 42.6
	15	3 12 22.51	54.43	17 4 41.7	3 42.6	5.891 480	7 154	13 39.6
	16	3 13 16.94	54.63	+17 8 24.3	3 42.2	5.898 634	6 969	13 36.6
	17	3 14 11.57	54.82	17 12 6.5	3 41.7	5.905 603	6 783	13 33.6
	18	3 15 6.39	55.02	17 15 48.2	3 41.3	5.912 386	6 594	13 30.5
	19	3 16 1.41	55.20	17 19 29.5	3 40.7	5.918 980	6 407	13 27.5
	20	3 16 56.61	55.38	17 23 10.2	3 40.2	5.925 387	6 217	13 24.5
	21	3 17 51.99	55.55	17 26 50.4	3 39.6	5.931 604	6 027	13 21.5
	22	3 18 47.54	55.73	+17 30 30.0	3 39.0	5.937 631	5 836	13 18.5
	23	3 19 43.27	55.89	17 34 9.0	3 38.4	5.943 467	5 642	13 15.5
	24	3 20 39.16	56.05	17 37 47.4	3 37.6	5.949 109	5 450	13 12.5
	25	3 21 35.21	56.20	17 41 25.0	3 37.0	5.954 559	5 256	13 9.5
	26	3 22 31.41	56.36	17 45 2.0	3 36.2	5.959 815	5 062	13 6.5
	27	3 23 27.77	56.50	17 48 38.2	3 35.5	5.964 877	4 865	13 3.5
	28	3 24 24.27	56.63	+17 52 13.7	3 34.7	5.969 742	4 671	13 0.5
	29	3 25 20.90	56.76	17 55 48.4	3 33.8	5.974 413	4 474	12 57.5
	30	3 26 17.66	56.89	17 59 22.2	3 33.0	5.978 887	4 276	12 54.5
Mai	1	3 27 14.55	57.01	18 2 55.2	3 32.1	5.983 163	4 081	12 51.5
	2	3 28 11.56	57.12	18 6 27.3	3 31.2	5.987 244	3 884	12 48.5
	3	3 29 8.68		+18 9 58.5		5.991 128		12 45.6

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Mai	3	3 29 8.68	57.24	+18 9 58.5	3 30.3	5.991 128	3 687	12 45.6
	4	3 30 5.92	57.34	18 13 28.8	3 29.4	5.994 815	3 488	12 42.6
	5	3 31 3.26	57.44	18 16 58.2	3 28.3	5.998 303	3 291	12 39.6
	6	3 32 0.70	57.53	18 20 26.5	3 27.3	6.001 594	3 095	12 36.6
	7	3 32 58.23	57.62	18 23 53.8	3 26.3	6.004 689	2 897	12 33.6
	8	3 33 55.85	57.70	18 27 20.1	3 25.2	6.007 586	2 701	12 30.7
	9	3 34 53.55	57.79	+18 30 45.3	3 24.1	6.010 287	2 504	12 27.7
	10	3 35 51.34	57.86	18 34 9.4	3 23.0	6.012 791	2 307	12 24.7
	11	3 36 49.20	57.94	18 37 32.4	3 21.9	6.015 098	2 111	12 21.7
	12	3 37 47.14	58.00	18 40 54.3	3 20.8	6.017 209	1 915	12 18.8
	13	3 38 45.14	58.07	18 44 15.1	3 19.6	6.019 124	1 717	12 15.8
	14	3 39 43.21	58.13	18 47 34.7	3 18.4	6.020 841	1 520	12 12.8
	15	3 40 41.34	58.19	+18 50 53.1	3 17.2	6.022 361	1 323	12 9.9
	16	3 41 39.53	58.24	18 54 10.3	3 15.9	6.023 684	1 125	12 6.9
	17	3 42 37.77	58.30	18 57 26.2	3 14.8	6.024 809	925	12 3.9
	18	3 43 36.07	58.33	19 0 41.0	3 13.5	6.025 734	728	12 1.0
	19	3 44 34.40	58.38	19 3 54.5	3 12.2	6.026 462	529	11 58.0
	20	3 45 32.78	58.41	19 7 6.7	3 11.0	6.026 991	330	11 55.0
	21	3 46 31.19	58.43	+19 10 17.7	3 9.6	6.027 321	130	11 52.1
	22	3 47 29.62	58.46	19 13 27.3	3 8.3	6.027 451	$\overline{68}$	11 49.1
	23	3 48 28.08	58.47	19 16 35.6	3 7.0	6.027 383	268	11 46.2
	24	3 49 26.55	58.49	19 19 42.6	3 5.5	6.027 115	467	11 43.2
	25	3 50 25.04	58.49	19 22 48.1	3 4.2	6.026 648	666	11 40.2
	26	3 51 23.53	58.50	19 25 52.3	3 2.9	6.025 982	865	11 37.3
	27	3 52 22.03	58.49	+19 28 55.2	3 1.4	6.025 117	1 064	11 34.3
	28	3 53 20.52	58.48	19 31 56.6	2 59.9	6.024 053	1 262	11 31.4
	29	3 54 19.00	58.46	19 34 56.5	2 58.5	6.022 791	1 460	11 28.4
	30	3 55 17.46	58.44	19 37 55.0	2 57.0	6.021 331	1 656	11 25.4
	31	3 56 15.90	58.42	19 40 52.0	2 55.6	6.019 675	1 854	11 22.5
Juni	1	3 57 14.32	58.38	19 43 47.6	2 54.0	6.017 821	2 050	11 19.5
	2	3 58 12.70	58.34	+19 46 41.6	2 52.6	6.015 771	2 245	11 16.5
	3	3 59 11.04	58.30	19 49 34.2	2 51.0	6.013 526	2 440	11 13.6
	4	4 0 9.34	58.26	19 52 25.2	2 49.5	6.011 086	2 633	11 10.6
	5	4 1 7.60	58.20	19 55 14.7	2 47.9	6.008 453	2 826	11 7.6
	6	4 2 5.80	58.15	19 58 2.6	2 46.4	6.005 627	3 018	11 4.7
	7	4 3 3.95	58.08	20 0 49.0	2 44.8	6.002 609	3 209	11 1.7
	8	4 4 2.03	58.02	+20 3 33.8	2 43.2	5.999 400	3 400	10 58.7
	9	4 5 0.05	57.96	20 6 17.0	2 41.7	5.996 000	3 590	10 55.8
	10	4 5 58.01	57.88	20 8 58.7	2 40.0	5.992 410	3 779	10 52.8
	11	4 6 55.89	57.80	20 11 38.7	2 38.5	5.988 631	3 969	10 49.8
	12	4 7 53.69	57.71	20 14 17.2	2 36.8	5.984 662	4 157	10 46.9
	13	4 8 51.40		+20 16 54.0		5.980 505		10 43.9

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Juni	13	4 8 51.40	57.64	+20 16 54.0	2 35.3	5.980 505	4 346	10 43.9
	14	4 9 49.04	57.54	20 19 29.3	2 33.6	5.976 159	4 534	10 40.9
	15	4 10 46.58	57.44	20 22 2.9	2 32.0	5.971 625	4 723	10 37.9
	16	4 11 44.02	57.35	20 24 34.9	2 30.4	5.966 902	4 909	10 34.9
	17	4 12 41.37	57.23	20 27 5.3	2 28.7	5.961 993	5 096	10 31.9
	18	4 13 38.60	57.12	20 29 34.0	2 27.1	5.956 897	5 283	10 29.0
	19	4 14 35.72	57.00	+20 32 1.1	2 25.5	5.951 614	5 469	10 26.0
	20	4 15 32.72	56.88	20 34 26.6	2 23.8	5.946 145	5 655	10 23.0
	21	4 16 29.60	56.74	20 36 50.4	2 22.1	5.940 490	5 839	10 20.0
	22	4 17 26.34	56.60	20 39 12.5	2 20.5	5.934 651	6 022	10 17.0
	23	4 18 22.94	56.46	20 41 33.0	2 18.8	5.928 629	6 206	10 14.0
	24	4 19 19.40	56.31	20 43 51.8	2 17.1	5.922 423	6 387	10 11.0
	25	4 20 15.71	56.16	+20 46 8.9	2 15.4	5.916 036	6 568	10 8.0
	26	4 21 11.87	55.99	20 48 24.3	2 13.7	5.909 468	6 748	10 5.0
	27	4 22 7.86	55.82	20 50 38.0	2 12.1	5.902 720	6 927	10 2.0
	28	4 23 3.68	55.65	20 52 50.1	2 10.4	5.895 793	7 103	9 59.0
	29	4 23 59.33	55.46	20 55 0.5	2 8.6	5.888 690	7 279	9 56.0
	30	4 24 54.79	55.27	20 57 9.1	2 6.9	5.881 411	7 454	9 53.0
Juli	1	4 25 50.06	55.09	+20 59 16.0	2 5.2	5.873 957	7 626	9 50.0
	2	4 26 45.15	54.88	21 1 21.2	2 3.6	5.866 331	7 798	9 47.0
	3	4 27 40.03	54.68	21 3 24.8	2 1.8	5.858 533	7 968	9 43.9
	4	4 28 34.71	54.46	21 5 26.6	2 0.1	5.850 565	8 136	9 40.9
	5	4 29 29.17	54.25	21 7 26.7	1 58.5	5.842 429	8 303	9 37.9
	6	4 30 23.42	54.04	21 9 25.2	1 56.7	5.834 126	8 469	9 34.9
	7	4 31 17.46	53.80	+21 11 21.9	1 55.0	5.825 657	8 633	9 31.8
	8	4 32 11.26	53.58	21 13 16.9	1 53.3	5.817 024	8 796	9 28.8
	9	4 33 4.84	53.35	21 15 10.2	1 51.7	5.808 228	8 959	9 25.7
	10	4 33 58.19	53.10	21 17 1.9	1 50.0	5.799 269	9 120	9 22.7
	11	4 34 51.29	52.86	21 18 51.9	1 48.2	5.790 149	9 280	9 19.6
	12	4 35 44.15	52.60	21 20 40.1	1 46.6	5.780 869	9 439	9 16.6
	13	4 36 36.75	52.35	+21 22 26.7	1 45.0	5.771 430	9 597	9 13.5
	14	4 37 29.10	52.07	21 24 11.7	1 43.2	5.761 833	9 755	9 10.4
	15	4 38 21.17	51.81	21 25 54.9	1 41.6	5.752 078	9 909	9 7.4
	16	4 39 12.98	51.53	21 27 36.5	1 40.0	5.742 169	10 065	9 4.3
	17	4 40 4.51	51.24	21 29 16.5	1 38.3	5.732 104	10 218	9 1.2
	18	4 40 55.75	50.95	21 30 54.8	1 36.7	5.721 886	10 369	8 58.1
	19	4 41 46.70	50.65	+21 32 31.5	1 35.0	5.711 517	10 520	8 55.0
	20	4 42 37.35	50.34	21 34 6.5	1 33.4	5.700 997	10 668	8 51.9
	21	4 43 27.69	50.02	21 35 39.9	1 31.7	5.690 329	10 816	8 48.8
	22	4 44 17.71	49.70	21 37 11.6	1 30.2	5.679 513	10 960	8 45.7
	23	4 45 7.41	49.37	21 38 41.8	1 28.4	5.668 553	11 105	8 42.6
	24	4 45 56.78		+21 40 10.2		5.657 448		8 39.5

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Juli	24	4 45 56.78	49.04	+21 40 10.2	1 26.9	5.657 448	11 245	8 39.5
	25	4 46 45.82	48.69	21 41 37.1	1 25.3	5.646 203	11 386	8 36.4
	26	4 47 34.51	48.33	21 43 2.4	1 23.7	5.634 817	11 523	8 33.3
	27	4 48 22.84	47.97	21 44 26.1	1 22.1	5.623 294	11 659	8 30.1
	28	4 49 10.81	47.61	21 45 48.2	1 20.5	5.611 635	11 790	8 27.0
	29	4 49 58.42	47.23	21 47 8.7	1 18.9	5.599 845	11 921	8 23.9
	30	4 50 45.65	46.85	+21 48 27.6	1 17.4	5.587 924	12 051	8 20.7
	31	4 51 32.50	46.46	21 49 45.0	1 15.8	5.575 873	12 176	8 17.6
Aug.	1	4 52 18.96	46.06	21 51 0.8	1 14.3	5.563 697	12 299	8 14.4
	2	4 53 5.02	45.67	21 52 15.1	1 12.7	5.551 398	12 422	8 11.2
	3	4 53 50.69	45.26	21 53 27.8	1 11.2	5.538 976	12 540	8 8.0
	4	4 54 35.95	44.84	21 54 39.0	1 9.7	5.526 436	12 659	8 4.9
	5	4 55 20.79	44.43	+21 55 48.7	1 8.2	5.513 777	12 774	8 1.7
	6	4 56 5.22	44.00	21 56 56.9	1 6.7	5.501 003	12 887	7 58.5
	7	4 56 49.22	43.57	21 58 3.6	1 5.2	5.488 116	12 999	7 55.3
	8	4 57 32.79	43.12	21 59 8.8	1 3.8	5.475 117	13 108	7 52.1
	9	4 58 15.91	42.68	22 0 12.6	1 2.3	5.462 009	13 217	7 48.8
	10	4 58 58.59	42.23	22 1 14.9	1 0.9	5.448 792	13 321	7 45.6
	11	4 59 40.82	41.76	+22 2 15.8	0 59.5	5.435 471	13 426	7 42.4
	12	5 0 22.58	41.29	22 3 15.3	0 58.0	5.422 045	13 528	7 39.1
	13	5 1 3.87	40.81	22 4 13.3	0 56.7	5.408 517	13 626	7 35.9
	14	5 1 44.68	40.32	22 5 10.0	0 55.3	5.394 891	13 724	7 32.6
	15	5 2 25.00	39.82	22 6 5.3	0 53.9	5.381 167	13 819	7 29.4
	16	5 3 4.82	39.32	22 6 59.2	0 52.7	5.367 348	13 911	7 26.1
	17	5 3 44.14	38.81	+22 7 51.9	0 51.2	5.353 437	14 002	7 22.8
	18	5 4 22.95	38.28	22 8 43.1	0 50.0	5.339 435	14 088	7 19.5
	19	5 5 1.23	37.75	22 9 33.1	0 48.6	5.325 347	14 172	7 16.2
	20	5 5 38.98	37.21	22 10 21.7	0 47.3	5.311 175	14 255	7 12.9
	21	5 6 16.19	36.66	22 11 9.0	0 46.0	5.296 920	14 333	7 9.6
	22	5 6 52.85	36.10	22 11 55.0	0 44.8	5.282 587	14 408	7 6.3
	23	5 7 28.95	35.54	+22 12 39.8	0 43.5	5.268 179	14 480	7 2.9
	24	5 8 4.49	34.96	22 13 23.3	0 42.3	5.253 699	14 550	6 59.6
	25	5 8 39.45	34.38	22 14 5.6	0 41.0	5.239 149	14 617	6 56.2
	26	5 9 13.83	33.79	22 14 46.6	0 39.8	5.224 532	14 677	6 52.9
	27	5 9 47.62	33.19	22 15 26.4	0 38.7	5.209 855	14 737	6 49.5
	28	5 10 20.81	32.59	22 16 5.1	0 37.5	5.195 118	14 793	6 46.1
	29	5 10 53.40	31.97	+22 16 42.6	0 36.2	5.180 325	14 845	6 42.7
	30	5 11 25.37	31.35	22 17 18.8	0 35.1	5.165 480	14 894	6 39.3
	31	5 11 56.72	30.73	22 17 53.9	0 34.0	5.150 586	14 941	6 35.9
Sept.	1	5 12 27.45	30.09	22 18 27.9	0 32.8	5.135 645	14 982	6 32.5
	2	5 12 57.54	29.45	22 19 0.7	0 31.8	5.120 663	15 023	6 29.0
	3	5 13 26.99		+22 19 32.5		5.105 640		6 25.6

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	″			h m
Sept.	3	5 13 26.99	28.80	+22 19 32.5	30.7	5.105 640	15 060	6 25.6
	4	5 13 55.79	28.15	22 20 3.2	29.5	5.090 580	15 093	6 22.1
	5	5 14 23.94	27.48	22 20 32.7	28.6	5.075 487	15 124	6 18.7
	6	5 14 51.42	26.81	22 21 1.3	27.5	5.060 363	15 152	6 15.2
	7	5 15 18.23	26.14	22 21 28.8	26.4	5.045 211	15 176	6 11.7
	8	5 15 44.37	25.45	22 21 55.2	25.4	5.030 035	15 197	6 8.2
	9	5 16 9.82	24.75	+22 22 20.6	24.5	5.014 838	15 217	6 4.7
	10	5 16 34.57	24.05	22 22 45.1	23.6	4.999 621	15 230	6 1.2
	11	5 16 58.62	23.33	22 23 8.7	22.5	4.984 391	15 242	5 57.6
	12	5 17 21.95	22.62	22 23 31.2	21.5	4.969 149	15 249	5 54.1
	13	5 17 44.57	21.88	22 23 52.7	20.6	4.953 900	15 253	5 50.5
	14	5 18 6.45	21.15	22 24 13.3	19.8	4.938 647	15 254	5 46.9
	15	5 18 27.60	20.41	+22 24 33.1	18.8	4.923 393	15 250	5 43.3
	16	5 18 48.01	19.65	22 24 51.9	17.9	4.908 143	15 242	5 39.7
	17	5 19 7.66	18.88	22 25 9.8	16.9	4.892 901	15 231	5 36.1
	18	5 19 26.54	18.12	22 25 26.7	16.2	4.877 670	15 215	5 32.5
	19	5 19 44.66	17.34	22 25 42.9	15.2	4.862 455	15 194	5 28.9
	20	5 20 2.00	16.56	22 25 58.1	14.4	4.847 261	15 171	5 25.2
	21	5 20 18.56	15.76	+22 26 12.5	13.6	4.832 090	15 141	5 21.6
	22	5 20 34.32	14.97	22 26 26.1	12.7	4.816 949	15 107	5 17.9
	23	5 20 49.29	14.16	22 26 38.8	11.9	4.801 842	15 068	5 14.2
	24	5 21 3.45	13.34	22 26 50.7	11.0	4.786 774	15 026	5 10.5
	25	5 21 16.79	12.54	22 27 1.7	10.3	4.771 748	14 980	5 6.8
	26	5 21 29.33	11.72	22 27 12.0	9.5	4.756 768	14 926	5 3.1
	27	5 21 41.05	10.90	+22 27 21.5	8.6	4.741 842	14 870	4 59.3
	28	5 21 51.95	10.07	22 27 30.1	7.9	4.726 972	14 811	4 55.6
	29	5 22 2.02	9.23	22 27 38.0	7.1	4.712 161	14 746	4 51.8
	30	5 22 11.25	8.40	22 27 45.1	6.4	4.697 415	14 677	4 48.0
Okt.	1	5 22 19.65	7.57	22 27 51.5	5.6	4.682 738	14 604	4 44.2
	2	5 22 27.22	6.72	22 27 57.1	4.9	4.668 134	14 527	4 40.4
	3	5 22 33.94	5.88	+22 28 2.0	4.1	4.653 607	14 445	4 36.6
	4	5 22 39.82	5.03	22 28 6.1	3.4	4.639 162	14 361	4 32.8
	5	5 22 44.85	4.17	22 28 9.5	2.7	4.624 801	14 271	4 28.9
	6	5 22 49.02	3.31	22 28 12.2	2.0	4.610 530	14 177	4 25.1
	7	5 22 52.33	2.46	22 28 14.2	1.3	4.596 353	14 078	4 21.2
	8	5 22 54.79	1.59	22 28 15.5	0.5	4.582 275	13 976	4 17.3
	9	5 22 56.38	0.72	+22 28 16.0	0.2	4.568 299	13 869	4 13.4
	10	5 22 57.10	0.14	22 28 15.8	0.8	4.554 430	13 756	4 9.5
	11	5 22 56.96	1.01	22 28 15.0	1.6	4.540 674	13 639	4 5.5
	12	5 22 55.95	1.89	22 28 13.4	2.3	4.527 035	13 519	4 1.6
	13	5 22 54.06	2.77	22 28 11.1	3.0	4.513 516	13 393	3 57.6
	14	5 22 51.29		+22 28 8.1		4.500 123		3 53.6

Tag	0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941	h m s	s	° ′ ″	″			h m
Okt. 14	5 22 51.29	3.64	+22 28 8.1	3.6	4.500 123	13 262	3 53.6
15	5 22 47.65	4.51	22 28 4.5	4.4	4.486 861	13 125	3 49.6
16	5 22 43.14	5.39	22 28 0.1	5.2	4.473 736	12 985	3 45.6
17	5 22 37.75	6.27	22 27 54.9	5.7	4.460 751	12 839	3 41.6
18	5 22 31.48	7.14	22 27 49.2	6.5	4.447 912	12 687	3 37.6
19	5 22 24.34	8.02	22 27 42.7	7.3	4.435 225	12 531	3 33.5
20	5 22 16.32	8.88	+22 27 35.4	7.9	4.422 694	12 370	3 29.4
21	5 22 7.44	9.75	22 27 27.5	8.7	4.410 324	12 201	3 25.4
22	5 21 57.69	10.61	22 27 18.8	9.4	4.398 123	12 031	3 21.3
23	5 21 47.08	11.46	22 27 9.4	10.2	4.386 092	11 853	3 17.2
24	5 21 35.62	12.31	22 26 59.2	10.8	4.374 239	11 672	3 13.0
25	5 21 23.31	13.15	22 26 48.4	11.6	4.362 567	11 486	3 8.9
26	5 21 10.16	13.98	+22 26 36.8	12.4	4.351 081	11 294	3 4.7
27	5 20 56.18	14.80	22 26 24.4	13.1	4.339 787	11 099	3 0.6
28	5 20 41.38	15.62	22 26 11.3	13.8	4.328 688	10 900	2 56.4
29	5 20 25.76	16.43	22 25 57.5	14.6	4.317 788	10 696	2 52.2
30	5 20 9.33	17.23	22 25 42.9	15.3	4.307 092	10 488	2 48.0
31	5 19 52.10	18.02	22 25 27.6	16.1	4.296 604	10 274	2 43.8
Nov. 1	5 19 34.08	18.79	+22 25 11.5	16.8	4.286 330	10 059	2 39.5
2	5 19 15.29	19.56	22 24 54.7	17.5	4.276 271	9 839	2 35.3
3	5 18 55.73	20.32	22 24 37.2	18.4	4.266 432	9 613	2 31.0
4	5 18 35.41	21.07	22 24 18.8	19.1	4.256 819	9 386	2 26.8
5	5 18 14.34	21.80	22 23 59.7	19.8	4.247 433	9 153	2 22.5
6	5 17 52.54	22.53	22 23 39.9	20.7	4.238 280	8 914	2 18.2
7	5 17 30.01	23.24	+22 23 19.2	21.3	4.229 366	8 675	2 13.9
8	5 17 6.77	23.93	22 22 57.9	22.2	4.220 691	8 429	2 9.6
9	5 16 42.84	24.62	22 22 35.7	22.9	4.212 262	8 180	2 5.2
10	5 16 18.22	25.29	22 22 12.8	23.7	4.204 082	7 928	2 0.9
11	5 15 52.93	25.94	22 21 49.1	24.5	4.196 154	7 669	1 56.6
12	5 15 26.99	26.57	22 21 24.6	25.2	4.188 485	7 409	1 52.2
13	5 15 0.42	27.20	+22 20 59.4	26.1	4.181 076	7 143	1 47.8
14	5 14 33.22	27.79	22 20 33.3	26.8	4.173 933	6 874	1 43.4
15	5 14 5.43	28.38	22 20 6.5	27.6	4.167 059	6 603	1 39.0
16	5 13 37.05	28.94	22 19 38.9	28.3	4.160 456	6 324	1 34.6
17	5 13 8.11	29.48	22 19 10.6	29.2	4.154 132	6 045	1 30.2
18	5 12 38.63	30.01	22 18 41.4	29.9	4.148 087	5 761	1 25.8
19	5 12 8.62	30.50	+22 18 11.5	20.6	4.142 326	5 474	1 21.4
20	5 11 38.12	30.97	22 17 40.9	31.4	4.136 852	5 183	1 16.9
21	5 11 7.15	31.42	22 17 9.5	32.2	4.131 669	4 891	1 12.5
22	5 10 35.73	31.84	22 16 37.3	32.8	4.126 778	4 595	1 8.0
23	5 10 3.89	32.25	22 16 4.5	33.6	4.122 183	4 298	1 3.6
24	5 9 31.64		+22 15 30.9		4.117 885		0 59.1

Tag	0h Welt-Zeit Scheinbare Rektaszension		0h Welt-Zeit Scheinbare Deklination		0h Welt-Zeit Δ		Obere Kulmination in Greenwich
1941	h m s	s	° ′ ″	″			h m
Nov. 24	5 9 31.64	32.62	+22 15 30.9	34.2	4.117 885	3 998	0 59.1
25	5 8 59.02	32.97	22 14 56.7	34.9	4.113 887	3 697	0 54.6
26	5 8 26.05	33.29	22 14 21.8	35.5	4.110 190	3 394	0 50.2
27	5 7 52.76	33.59	22 13 46.3	36.2	4.106 796	3 088	0 45.7
28	5 7 19.17	33.86	22 13 10.1	36.8	4.103 708	2 783	0 41.2
29	5 6 45.31	34.12	22 12 33.3	37.3	4.100 925	2 475	0 36.7
30	5 6 11.19	34.34	+22 11 56.0	37.9	4.098 450	2 165	0 32.2
Dez. 1	5 5 36.85	34.54	22 11 18.1	38.5	4.096 285	1 855	0 27.7
2	5 5 2.31	34.70	22 10 39.6	38.9	4.094 430	1 544	0 23.2
3	5 4 27.61	34.86	22 10 0.7	39.4	4.092 886	1 232	0 18.7
4	5 3 52.75	34.97	22 9 21.3	39.9	4.091 654	919	0 14.2
5	5 3 17.78	35.07	22 8 41.4	40.3	4.090 735	604	0 9.7
6	5 2 42.71	35.14	+22 8 1.1	40.6	4.090 131	291	0 5.2
7	5 2 7.57	35.18	22 7 20.5	41.0	4.089 840	24	{0 0.6 23 56.1}
8	5 1 32.39	35.19	22 6 39.5	41.4	4.089 864	341	23 51.6
9	5 0 57.20	35.19	22 5 58.1	41.6	4.090 205	656	23 47.1
10	5 0 22.01	35.14	22 5 16.5	41.9	4.090 861	972	23 42.6
11	4 59 46.87	35.08	22 4 34.6	42.1	4.091 833	1 289	23 38.1
12	4 59 11.79	34.98	+22 3 52.5	42.3	4.093 122	1 605	23 33.5
13	4 58 36.81	34.87	22 3 10.2	42.4	4.094 727	1 920	23 29.0
14	4 58 1.94	34.72	22 2 27.8	42.5	4.096 647	2 238	23 24.5
15	4 57 27.22	34.55	22 1 45.3	42.5	4.098 885	2 552	23 20.0
16	4 56 52.67	34.34	22 1 2.8	42.6	4.101 437	2 868	23 15.5
17	4 56 18.33	34.11	22 0 20.2	42.5	4.104 305	3 181	23 11.0
18	4 55 44.22	33.85	+21 59 37.7	42.4	4.107 486	3 493	23 6.5
19	4 55 10.37	33.56	21 58 55.3	42.3	4.110 979	3 806	23 2.0
20	4 54 36.81	33.25	21 58 13.0	42.1	4.114 785	4 113	22 57.6
21	4 54 3.56	32.92	21 57 30.9	41.8	4.118 898	4 421	22 53.1
22	4 53 30.64	32.54	21 56 49.1	41.5	4.123 319	4 726	22 48.6
23	4 52 58.10	32.16	21 56 7.6	41.2	4.128 045	5 028	22 44.2
24	4 52 25.94	31.74	+21 55 26.4	40.7	4.133 073	5 328	22 39.7
25	4 51 54.20	31.30	21 54 45.7	40.4	4.138 401	5 626	22 35.2
26	4 51 22.90	30.85	21 54 5.3	39.8	4.144 027	5 919	22 30.8
27	4 50 52.05	30.37	21 53 25.5	39.3	4.149 946	6 210	22 26.4
28	4 50 21.68	29.86	21 52 46.2	38.6	4.156 156	6 499	22 21.9
29	4 49 51.82	29.35	21 52 7.6	38.0	4.162 655	6 784	22 17.5
30	4 49 22.47	28.81	+21 51 29.6	37.3	4.169 439	7 067	22 13.1
31	4 48 53.66	28.24	21 50 52.3	36.5	4.176 506	7 346	22 8.7
32	4 48 25.42		+21 50 15.8		4.183 852		22 4.3

Tag		Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	″			h m
Jan.	0	2 25 42.80	4.28	+11 49 48.7	3.0	8.68 175	1 464	19 45.3
	1	2 25 38.52	3.85	11 49 45.7	0.7	8.69 639	1 478	19 41.3
	2	2 25 34.67	3.43	11 49 45.0	1.4	8.71 117	1 491	19 37.3
	3	2 25 31.24	2.99	11 49 46.4	3.5	8.72 608	1 503	19 33.4
	4	2 25 28.25	2.56	11 49 49.9	5.8	8.74 111	1 516	19 29.4
	5	2 25 25.69	2.13	11 49 55.7	8.0	8.75 627	1 528	19 25.4
	6	2 25 23.56	1.70	+11 50 3.7	10.3	8.77 155	1 538	19 21.5
	7	2 25 21.86	1.27	11 50 14.0	12.4	8.78 693	1 550	19 17.5
	8	2 25 20.59	0.83	11 50 26.4	14.6	8.80 243	1 560	19 13.6
	9	2 25 19.76	0.40	11 50 41.0	16.8	8.81 803	1 569	19 9.6
	10	2 25 19.36	0.04	11 50 57.8	19.1	8.83 372	1 579	19 5.7
	11	2 25 19.40	0.47	11 51 16.9	21.2	8.84 951	1 588	19 1.8
	12	2 25 19.87	0.90	+11 51 38.1	23.4	8.86 539	1 596	18 57.9
	13	2 25 20.77	1.34	11 52 1.5	25.5	8.88 135	1 603	18 53.9
	14	2 25 22.11	1.77	11 52 27.0	27.7	8.89 738	1 611	18 50.0
	15	2 25 23.88	2.20	11 52 54.7	29.9	8.91 349	1 618	18 46.1
	16	2 25 26.08	2.63	11 53 24.6	32.1	8.92 967	1 624	18 42.2
	17	2 25 28.71	3.07	11 53 56.7	34.1	8.94 591	1 630	18 38.4
	18	2 25 31.78	3.49	+11 54 30.8	36.3	8.96 221	1 635	18 34.5
	19	2 25 35.27	3.93	11 55 7.1	38.4	8.97 856	1 640	18 30.6
	20	2 25 39.20	4.35	11 55 45.5	40.5	8.99 496	1 645	18 26.8
	21	2 25 43.55	4.79	11 56 26.0	42.6	9.01 141	1 648	18 22.9
	22	2 25 48.34	5.21	11 57 8.6	44.7	9.02 789	1 652	18 19.1
	23	2 25 53.55	5.64	11 57 53.3	46.8	9.04 441	1 655	18 15.2
	24	2 25 59.19	6.07	+11 58 40.1	48.8	9.06 096	1 657	18 11.4
	25	2 26 5.26	6.50	11 59 28.9	50.9	9.07 753	1 659	18 7.5
	26	2 26 11.76	6.92	12 0 19.8	52.9	9.09 412	1 660	18 3.7
	27	2 26 18.68	7.34	12 1 12.7	54.9	9.11 072	1 661	17 59.9
	28	2 26 26.02	7.77	12 2 7.6	56.9	9.12 733	1 661	17 56.1
	29	2 26 33.79	8.18	12 3 4.5	58.9	9.14 394	1 661	17 52.3
	30	2 26 41.97	8.59	+12 4 3.4	60.9	9.16 055	1 661	17 48.5
	31	2 26 50.56	9.01	12 5 4.3	62.8	9.17 716	1 659	17 44.8
Febr.	1	2 26 59.57	9.42	12 6 7.1	64.7	9.19 375	1 657	17 41.0
	2	2 27 8.99	9.83	12 7 11.8	66.6	9.21 032	1 655	17 37.2
	3	2 27 18.82	10.23	12 8 18.4	68.5	9.22 687	1 652	17 33.4
	4	2 27 29.05	10.63	12 9 26.9	70.3	9.24 339	1 649	17 29.7
	5	2 27 39.68	11.03	+12 10 37.2	72.1	9.25 988	1 645	17 25.9
	6	2 27 50.71	11.42	12 11 49.3	73.9	9.27 633	1 641	17 22.2
	7	2 28 2.13	11.81	12 13 3.2	75.7	9.29 274	1 636	17 18.5
	8	2 28 13.94	12.20	12 14 18.9	77.5	9.30 910	1 632	17 14.7
	9	2 28 26.14	12.59	12 15 36.4	79.2	9.32 542	1 626	17 11.0
	10	2 28 38.73		+12 16 55.6		9.34 168		17 7.3

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Febr.	10	2 28 38.73	12.96	+12 16 55.6	1 20.9	9.34 168	1 620	17 7.3
	11	2 28 51.69	13.34	12 18 16.5	1 22.6	9.35 788	1 614	17 3.6
	12	2 29 5.03	13.72	12 19 39.1	1 24.2	9.37 402	1 607	16 59.9
	13	2 29 18.75	14.09	12 21 3.3	1 25.9	9.39 009	1 601	16 56.2
	14	2 29 32.84	14.45	12 22 29.2	1 27.5	9.40 610	1 593	16 52.5
	15	2 29 47.29	14.82	12 23 56.7	1 29.0	9.42 203	1 585	16 48.8
	16	2 30 2.11	15.18	+12 25 25.7	1 30.6	9.43 788	1 577	16 45.1
	17	2 30 17.29	15.54	12 26 56.3	1 32.2	9.45 365	1 568	16 41.4
	18	2 30 32.83	15.89	12 28 28.5	1 33.6	9.46 933	1 560	16 37.7
	19	2 30 48.72	16.25	12 30 2.1	1 35.1	9.48 493	1 550	16 34.1
	20	2 31 4.97	16.60	12 31 37.2	1 36.6	9.50 043	1 540	16 30.4
	21	2 31 21.57	16.94	12 33 13.8	1 38.1	9.51 583	1 530	16 26.8
	22	2 31 38.51	17.28	+12 34 51.9	1 39.4	9.53 113	1 519	16 23.1
	23	2 31 55.79	17.62	12 36 31.3	1 40.8	9.54 632	1 509	16 19.5
	24	2 32 13.41	17.96	12 38 12.1	1 42.2	9.56 141	1 496	16 15.8
	25	2 32 31.37	18.29	12 39 54.3	1 43.6	9.57 637	1 485	16 12.2
	26	2 32 49.66	18.61	12 41 37.9	1 44.8	9.59 122	1 473	16 8.6
	27	2 33 8.27	18.94	12 43 22.7	1 46.1	9.60 595	1 460	16 5.0
	28	2 33 27.21	19.25	+12 45 8.8	1 47.4	9.62 055	1 447	16 1.3
März	1	2 33 46.46	19.57	12 46 56.2	1 48.5	9.63 502	1 434	15 57.7
	2	2 34 6.03	19.87	12 48 44.7	1 49.8	9.64 936	1 420	15 54.1
	3	2 34 25.90	20.18	12 50 34.5	1 50.9	9.66 356	1 406	15 50.5
	4	2 34 46.08	20.48	12 52 25.4	1 52.1	9.67 762	1 391	15 46.9
	5	2 35 6.56	20.77	12 54 17.5	1 53.2	9.69 153	1 377	15 43.3
	6	2 35 27.33	21.07	+12 56 10.7	1 54.2	9.70 530	1 361	15 39.8
	7	2 35 48.40	21.35	12 58 4.9	1 55.3	9.71 891	1 346	15 36.2
	8	2 36 9.75	21.63	13 0 0.2	1 56.3	9.73 237	1 331	15 32.6
	9	2 36 31.38	21.90	13 1 56.5	1 57.3	9.74 568	1 315	15 29.1
	10	2 36 53.28	22.18	13 3 53.8	1 58.2	9.75 883	1 299	15 25.5
	11	2 37 15.46	22.45	13 5 52.0	1 59.1	9.77 182	1 282	15 21.9
	12	2 37 37.91	22.71	+13 7 51.1	2 0.1	9.78 464	1 265	15 18.4
	13	2 38 0.62	22.97	13 9 51.2	2 1.0	9.79 729	1 249	15 14.8
	14	2 38 23.59	23.23	13 11 52.2	2 1.8	9.80 978	1 232	15 11.3
	15	2 38 46.82	23.48	13 13 54.0	2 2.6	9.82 210	1 214	15 7.7
	16	2 39 10.30	23.73	13 15 56.6	2 3.4	9.83 424	1 196	15 4.2
	17	2 39 34.03	23.97	13 18 0.0	2 4.2	9.84 620	1 179	15 0.7
	18	2 39 58.00	24.21	+13 20 4.2	2 4.9	9.85 799	1 160	14 57.1
	19	2 40 22.21	24.45	13 22 9.1	2 5.7	9.86 959	1 142	14 53.6
	20	2 40 46.66	24.68	13 24 14.8	2 6.3	9.88 101	1 124	14 50.1
	21	2 41 11.34	24.91	13 26 21.1	2 7.0	9.89 225	1 104	14 46.5
	22	2 41 36.25	25.14	13 28 28.1	2 7.7	9.90 329	1 086	14 43.0
	23	2 42 1.39		+13 30 35.8		9.91 415		14 39.5

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	″	° ′ ″	′ ″			h m
März	23	2 42 1.39	25.36	+13 30 35.8	2 8.3	9.91 415	1 065	14 39.5
	24	2 42 26.75	25.57	13 32 44.1	2 8.9	9.92 480	1 046	14 36.0
	25	2 42 52.32	25.78	13 34 53.0	2 9.4	9.93 526	1 026	14 32.5
	26	2 43 18.10	25.99	13 37 2.4	2 10.0	9.94 552	1 006	14 29.0
	27	2 43 44.09	26.20	13 39 12.4	2 10.5	9.95 558	985	14 25.5
	28	2 44 10.29	26.39	13 41 22.9	2 11.0	9.96 543	965	14 22.0
	29	2 44 36.68	26.58	+13 43 33.9	2 11.4	9.97 508	944	14 18.5
	30	2 45 3.26	26.77	13 45 45.3	2 11.9	9.98 452	923	14 15.0
	31	2 45 30.03	26.96	13 47 57.2	2 12.2	9.99 375	901	14 11.5
April	1	2 45 56.99	27.13	13 50 9.4	2 12.6	10.00 276	880	14 8.0
	2	2 46 24.12	27.30	13 52 22.0	2 13.0	10.01 156	859	14 4.6
	3	2 46 51.42	27.48	13 54 35.0	2 13.3	10.02 015	837	14 1.1
	4	2 47 18.90	27.64	+13 56 48.3	2 13.6	10.02 852	814	13 57.6
	5	2 47 46.54	27.80	13 59 1.9	2 13.9	10.03 666	793	13 54.2
	6	2 48 14.34	27.95	14 1 15.8	2 14.1	10.04 459	771	13 50.7
	7	2 48 42.29	28.11	14 3 29.9	2 14.4	10.05 230	748	13 47.2
	8	2 49 10.40	28.25	14 5 44.3	2 14.5	10.05 978	726	13 43.7
	9	2 49 38.65	28.39	14 7 58.8	2 14.7	10.06 704	704	13 40.3
	10	2 50 7.04	28.53	+14 10 13.5	2 14.9	10.07 408	681	13 36.8
	11	2 50 35.57	28.67	14 12 28.4	2 14.9	10.08 089	658	13 33.4
	12	2 51 4.24	28.79	14 14 43.3	2 15.1	10.08 747	636	13 29.9
	13	2 51 33.03	28.92	14 16 58.4	2 15.2	10.09 383	613	13 26.5
	14	2 52 1.95	29.04	14 19 13.6	2 15.2	10.09 996	590	13 23.0
	15	2 52 30.99	29.16	14 21 28.8	2 15.2	10.10 586	567	13 19.6
	16	2 53 0.15	29.28	+14 23 44.0	2 15.3	10.11 153	544	13 16.1
	17	2 53 29.43	29.39	14 25 59.3	2 15.3	10.11 697	521	13 12.7
	18	2 53 58.82	29.50	14 28 14.6	2 15.2	10.12 218	497	13 9.2
	19	2 54 28.32	29.60	14 30 29.8	2 15.2	10.12 715	473	13 5.8
	20	2 54 57.92	29.69	14 32 45.0	2 15.1	10.13 188	450	13 2.3
	21	2 55 27.61	29.79	14 35 0.1	2 15.0	10.13 638	426	12 58.9
	22	2 55 57.40	29.88	+14 37 15.1	2 14.9	10.14 064	403	12 55.5
	23	2 56 27.28	29.97	14 39 30.0	2 14.8	10.14 467	378	12 52.0
	24	2 56 57.25	30.05	14 41 44.8	2 14.6	10.14 845	355	12 48.6
	25	2 57 27.30	30.12	14 43 59.4	2 14.5	10.15 200	330	12 45.2
	26	2 57 57.42	30.19	14 46 13.9	2 14.2	10.15 530	306	12 41.7
	27	2 58 27.61	30.26	14 48 28.1	2 14.0	10.15 836	282	12 38.3
	28	2 58 57.87	30.32	+14 50 42.1	2 13.8	10.16 118	258	12 34.9
	29	2 59 28.19	30.38	14 52 55.9	2 13.5	10.16 376	233	12 31.4
	30	2 59 58.57	30.43	14 55 9.4	2 13.2	10.16 609	209	12 28.0
Mai	1	3 0 29.00	30.48	14 57 22.6	2 12.9	10.16 818	185	12 24.6
	2	3 0 59.48	30.52	14 59 35.5	2 12.6	10.17 003	160	12 21.2
	3	3 1 30.00		+15 1 48.1		10.17 163		12 17.7

Tag		0h Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Mai	3	3 1 30.00	30.56	+15 1 48.1	2 12.2	10.17 163	136	12 17.7
	4	3 2 0.56	30.60	15 4 0.3	2 11.8	10.17 299	112	12 14.3
	5	3 2 31.16	30.62	15 6 12.1	2 11.4	10.17 411	88	12 10.9
	6	3 3 1.78	30.65	15 8 23.5	2 11.1	10.17 499	63	12 7.5
	7	3 3 32.43	30.67	15 10 34.6	2 10.6	10.17 562	39	12 4.0
	8	3 4 3.10	30.69	15 12 45.2	2 10.1	10.17 601	15	12 0.6
	9	3 4 33.79	30.70	+15 14 55.3	2 9.7	10.17 616	9	11 57.2
	10	3 5 4.49	30.72	15 17 5.0	2 9.2	10.17 607	33	11 53.8
	11	3 5 35.21	30.72	15 19 14.2	2 8.8	10.17 574	57	11 50.4
	12	3 6 5.93	30.72	15 21 23.0	2 8.2	10.17 517	81	11 46.9
	13	3 6 36.65	30.72	15 23 31.2	2 7.7	10.17 436	105	11 43.5
	14	3 7 7.37	30.71	15 25 38.9	2 7.1	10.17 331	129	11 40.1
	15	3 7 38.08	30.71	+15 27 46.0	2 6.5	10.17 202	153	11 36.7
	16	3 8 8.79	30.70	15 29 52.5	2 6.0	10.17 049	177	11 33.2
	17	3 8 39.49	30.68	15 31 58.5	2 5.4	10.16 872	201	11 29.8
	18	3 9 10.17	30.65	15 34 3.9	2 4.8	10.16 671	225	11 26.4
	19	3 9 40.82	30.63	15 36 8.7	2 4.2	10.16 446	248	11 23.0
	20	3 10 11.45	30.60	15 38 12.9	2 3.5	10.16 198	273	11 19.5
	21	3 10 42.05	30.57	+15 40 16.4	2 2.9	10.15 925	297	11 16.1
	22	3 11 12.62	30.53	15 42 19.3	2 2.2	10.15 628	320	11 12.7
	23	3 11 43.15	30.48	15 44 21.5	2 1.5	10.15 308	344	11 9.3
	24	3 12 13.63	30.44	15 46 23.0	2 0.8	10.14 964	368	11 5.8
	25	3 12 44.07	30.38	15 48 23.8	2 0.1	10.14 596	392	11 2.4
	26	3 13 14.45	30.32	15 50 23.9	1 59.3	10.14 204	415	10 59.0
	27	3 13 44.77	30.26	+15 52 23.2	1 58.6	10.13 789	438	10 55.6
	28	3 14 15.03	30.19	15 54 21.8	1 57.8	10.13 351	462	10 52.1
	29	3 14 45.22	30.12	15 56 19.6	1 57.0	10.12 889	485	10 48.7
	30	3 15 15.34	30.05	15 58 16.6	1 56.3	10.12 404	508	10 45.3
	31	3 15 45.39	29.96	16 0 12.9	1 55.4	10.11 896	531	10 41.8
Juni	1	3 16 15.35	29.88	16 2 8.3	1 54.5	10.11 365	554	10 38.4
	2	3 16 45.23	29.79	+16 4 2.8	1 53.7	10.10 811	576	10 35.0
	3	3 17 15.02	29.69	16 5 56.5	1 52.9	10.10 235	599	10 31.5
	4	3 17 44.71	29.60	16 7 49.4	1 52.0	10.09 636	621	10 28.1
	5	3 18 14.31	29.49	16 9 41.4	1 51.1	10.09 015	644	10 24.6
	6	3 18 43.80	29.39	16 11 32.5	1 50.2	10.08 371	665	10 21.2
	7	3 19 13.19	29.28	16 13 22.7	1 49.3	10.07 706	688	10 17.7
	8	3 19 42.47	29.17	+16 15 12.0	1 48.4	10.07 018	709	10 14.3
	9	3 20 11.64	29.05	16 17 0.4	1 47.4	10.06 309	730	10 10.8
	10	3 20 40.69	28.93	16 18 47.8	1 46.5	10.05 579	752	10 7.4
	11	3 21 9.62	28.80	16 20 34.3	1 45.6	10.04 827	774	10 3.9
	12	3 21 38.42	28.67	16 22 19.9	1 44.6	10.04 053	794	10 0.5
	13	3 22 7.09		+16 24 4.5		10.03 259		9 57.0

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		0h Welt-Zeit: Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Juni	13	3 22 7.09	28.54	+16 24 4.5	1 43.7	10.03 259	816	9 57.0
	14	3 22 35.63	28.41	16 25 48.2	1 42.6	10.02 443	836	9 53.6
	15	3 23 4.04	28.26	16 27 30.8	1 41.6	10.01 607	858	9 50.1
	16	3 23 32.30	28.11	16 29 12.4	1 40.7	10.00 749	878	9 46.6
	17	3 24 0.41	27.97	16 30 53.1	1 39.6	9.99 871	899	9 43.2
	18	3 24 28.38	27.81	16 32 32.7	1 38.6	9.98 972	919	9 39.7
	19	3 24 56.19	27.65	+16 34 11.3	1 37.6	9.98 053	939	9 36.2
	20	3 25 23.84	27.48	16 35 48.9	1 36.5	9.97 114	960	9 32.8
	21	3 25 51.32	27.31	16 37 25.4	1 35.5	9.96 154	979	9 29.3
	22	3 26 18.63	27.14	16 39 0.9	1 34.4	9.95 175	999	9 25.8
	23	3 26 45.77	26.96	16 40 35.3	1 33.3	9.94 176	1 018	9 22.3
	24	3 27 12.73	26.78	16 42 8.6	1 32.2	9.93 158	1 037	9 18.8
	25	3 27 39.51	26.59	+16 43 40.8	1 31.1	9.92 121	1 057	9 15.3
	26	3 28 6.10	26.39	16 45 11.9	1 29.9	9.91 064	1 075	9 11.9
	27	3 28 32.49	26.20	16 46 41.8	1 28.9	9.89 989	1 094	9 8.4
	28	3 28 58.69	25.99	16 48 10.7	1 27.7	9.88 895	1 112	9 4.9
	29	3 29 24.68	25.78	16 49 38.4	1 26.6	9.87 783	1 130	9 1.4
	30	3 29 50.46	25.57	16 51 5.0	1 25.4	9.86 653	1 148	8 57.9
Juli	1	3 30 16.03	25.36	+16 52 30.4	1 24.2	9.85 505	1 166	8 54.3
	2	3 30 41.39	25.14	16 53 54.6	1 23.1	9.84 339	1 182	8 50.8
	3	3 31 6.53	24.91	16 55 17.7	1 21.9	9.83 157	1 200	8 47.3
	4	3 31 31.44	24.69	16 56 39.6	1 20.7	9.81 957	1 216	8 43.8
	5	3 31 56.13	24.45	16 58 0.3	1 19.5	9.80 741	1 233	8 40.3
	6	3 32 20.58	24.22	16 59 19.8	1 18.3	9.79 508	1 248	8 36.7
	7	3 32 44.80	23.98	+17 0 38.1	1 17.1	9.78 260	1 265	8 33.2
	8	3 33 8.78	23.73	17 1 55.2	1 15.9	9.76 995	1 280	8 29.7
	9	3 33 32.51	23.49	17 3 11.1	1 14.6	9.75 715	1 296	8 26.1
	10	3 33 56.00	23.24	17 4 25.7	1 13.5	9.74 419	1 310	8 22.6
	11	3 34 19.24	22.98	17 5 39.2	1 12.2	9.73 109	1 326	8 19.0
	12	3 34 42.22	22.72	17 6 51.4	1 11.0	9.71 783	1 341	8 15.5
	13	3 35 4.94	22.46	+17 8 2.4	1 9.7	9.70 442	1 355	8 11.9
	14	3 35 27.40	22.19	17 9 12.1	1 8.5	9.69 087	1 369	8 8.4
	15	3 35 49.59	21.91	17 10 20.6	1 7.2	9.67 718	1 383	8 4.8
	16	3 36 11.50	21.64	17 11 27.8	1 6.0	9.66 335	1 397	8 1.2
	17	3 36 33.14	21.36	17 12 33.8	1 4.7	9.64 938	1 410	7 57.7
	18	3 36 54.50	21.07	17 13 38.5	1 3.4	9.63 528	1 423	7 54.1
	19	3 37 15.57	20.77	+17 14 41.9	1 2.1	9.62 105	1 437	7 50.5
	20	3 37 36.34	20.48	17 15 44.0	1 0.8	9.60 668	1 448	7 46.9
	21	3 37 56.82	20.18	17 16 44.8	0 59.5	9.59 220	1 461	7 43.3
	22	3 38 17.00	19.88	17 17 44.3	0 58.3	9.57 759	1 473	7 39.7
	23	3 38 36.88	19.56	17 18 42.6	0 56.9	9.56 286	1 484	7 36.1
	24	3 38 56.44		+17 19 39.5		9.54 802		7 32.5

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	″			h m
Juli	24	3 38 56.44	19.25	+17 19 39.5	55.5	9.54 802	1 495	7 32.5
	25	3 39 15.69	18.93	17 20 35.0	54.3	9.53 307	1 506	7 28.9
	26	3 39 34.62	18.60	17 21 29.3	52.9	9.51 801	1 516	7 25.3
	27	3 39 53.22	18.27	17 22 22.2	51.5	9.50 285	1 526	7 21.6
	28	3 40 11.49	17.95	17 23 13.7	50.2	9.48 759	1 536	7 18.0
	29	3 40 29.44	17.61	17 24 3.9	48.9	9.47 223	1 545	7 14.4
	30	3 40 47.05	17.27	+17 24 52.8	47.5	9.45 678	1 554	7 10.7
	31	3 41 4.32	16.92	17 25 40.3	46.2	9.44 124	1 563	7 7.1
Aug.	1	3 41 21.24	16.58	17 26 26.5	44.8	9.42 561	1 570	7 3.4
	2	3 41 37.82	16.24	17 27 11.3	43.4	9.40 991	1 579	6 59.8
	3	3 41 54.06	15.88	17 27 54.7	42.1	9.39 412	1 585	6 56.1
	4	3 42 9.94	15.52	17 28 36.8	40.7	9.37 827	1 593	6 52.4
	5	3 42 25.46	15.17	+17 29 17.5	39.4	9.36 234	1 599	6 48.8
	6	3 42 40.63	14.80	17 29 56.9	38.0	9.34 635	1 606	6 45.1
	7	3 42 55.43	14.44	17 30 34.9	36.6	9.33 029	1 612	6 41.4
	8	3 43 9.87	14.07	17 31 11.5	35.2	9.31 417	1 617	6 37.7
	9	3 43 23.94	13.69	17 31 46.7	33.9	9.29 800	1 623	6 34.0
	10	3 43 37.63	13.32	17 32 20.6	32.4	9.28 177	1 627	6 30.3
	11	3 43 50.95	12.94	+17 32 53.0	31.1	9.26 550	1 632	6 26.6
	12	3 44 3.89	12.55	17 33 24.1	29.7	9.24 918	1 637	6 22.9
	13	3 44 16.44	12.17	17 33 53.8	28.3	9.23 281	1 640	6 19.1
	14	3 44 28.61	11.77	17 34 22.1	26.9	9.21 641	1 643	6 15.4
	15	3 44 40.38	11.38	17 34 49.0	25.6	9.19 998	1 647	6 11.7
	16	3 44 51.76	10.98	17 35 14.6	24.1	9.18 351	1 649	6 7.9
	17	3 45 2.74	10.58	+17 35 38.7	22.7	9.16 702	1 651	6 4.2
	18	3 45 13.32	10.18	17 36 1.4	21.3	9.15 051	1 653	6 0.4
	19	3 45 23.50	9.76	17 36 22.7	20.0	9.13 398	1 654	5 56.7
	20	3 45 33.26	9.35	17 36 42.7	18.5	9.11 744	1 655	5 52.9
	21	3 45 42.61	8.94	17 37 1.2	17.0	9.10 089	1 655	5 49.1
	22	3 45 51.55	8.52	17 37 18.2	15.7	9.08 434	1 655	5 45.3
	23	3 46 0.07	8.10	+17 37 33.9	14.3	9.06 779	1 655	5 41.5
	24	3 46 8.17	7.68	17 37 48.2	12.8	9.05 124	1 653	5 37.7
	25	3 46 15.85	7.25	17 38 1.0	11.4	9.03 471	1 652	5 33.9
	26	3 46 23.10	6.82	17 38 12.4	10.1	9.01 819	1 650	5 30.1
	27	3 46 29.92	6.39	17 38 22.5	8.6	9.00 169	1 648	5 26.3
	28	3 46 36.31	5.97	17 38 31.1	7.2	8.98 521	1 644	5 22.5
	29	3 46 42.28	5.53	+17 38 38.3	5.8	8.96 877	1 641	5 18.6
	30	3 46 47.81	5.10	17 38 44.1	4.4	8.95 236	1 638	5 14.8
	31	3 46 52.91	4.67	17 38 48.5	2.9	8.93 598	1 633	5 10.9
Sept.	1	3 46 57.58	4.24	17 38 51.4	1.6	8.91 965	1 628	5 7.1
	2	3 47 1.82	3.79	17 38 53.0	0.2	8.90 337	1 623	5 3.2
	3	3 47 5.61		+17 38 53.2		8.88 714		4 59.3

Tag		Scheinbare Rektaszension (0h Welt-Zeit)		Scheinbare Deklination (0h Welt-Zeit)		Δ (0h Welt-Zeit)		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	″			h m
Sept.	3	3 47 5.61	3.36	+17 38 53.2	1.2	8.88 714	1 617	4 59.3
	4	3 47 8.97	2.93	17 38 52.0	2.6	8.87 097	1 611	4 55.5
	5	3 47 11.90	2.49	17 38 49.4	4.0	8.85 486	1 605	4 51.6
	6	3 47 14.39	2.04	17 38 45.4	5.3	8.83 881	1 598	4 47.7
	7	3 47 16.43	1.61	17 38 40.1	6.7	8.82 283	1 591	4 43.8
	8	3 47 18.04	1.17	17 38 33.4	8.1	8.80 692	1 583	4 39.9
	9	3 47 19.21	0.72	+17 38 25.3	9.5	8.79 109	1 574	4 36.0
	10	3 47 19.93	0.28	17 38 15.8	10.9	8.77 535	1 566	4 32.1
	11	3 47 20.21	$\overline{0.16}$	17 38 4.9	12.2	8.75 969	1 557	4 28.1
	12	3 47 20.05	0.61	17 37 52.7	13.6	8.74 412	1 547	4 24.2
	13	3 47 19.44	1.05	17 37 39.1	14.9	8.72 865	1 537	4 20.2
	14	3 47 18.39	1.50	17 37 24.2	16.2	8.71 328	1 527	4 16.3
	15	3 47 16.89	1.94	+17 37 8.0	17.6	8.69 801	1 515	4 12.3
	16	3 47 14.95	2.38	17 36 50.4	19.0	8.68 286	1 504	4 8.4
	17	3 47 12.57	2.83	17 36 31.4	20.3	8.66 782	1 492	4 4.4
	18	3 47 9.74	3.27	17 36 11.1	21.6	8.65 290	1 479	4 0.4
	19	3 47 6.47	3.71	17 35 49.5	23.0	8.63 811	1 466	3 56.4
	20	3 47 2.76	4.15	17 35 26.5	24.2	8.62 345	1 452	3 52.4
	21	3 46 58.61	4.59	+17 35 2.3	25.6	8.60 893	1 439	3 48.4
	22	3 46 54.02	5.02	17 34 36.7	26.8	8.59 454	1 424	3 44.4
	23	3 46 49.00	5.46	17 34 9.9	28.2	8.58 030	1 408	3 40.4
	24	3 46 43.54	5.89	17 33 41.7	29.4	8.56 622	1 393	3 36.4
	25	3 46 37.65	6.31	17 33 12.3	30.7	8.55 229	1 377	3 32.4
	26	3 46 31.34	6.73	17 32 41.6	31.9	8.53 852	1 360	3 28.3
	27	3 46 24.61	7.16	+17 32 9.7	33.1	8.52 492	1 344	3 24.3
	28	3 46 17.45	7.58	17 31 36.6	34.4	8.51 148	1 326	3 20.2
	29	3 46 9.87	7.98	17 31 2.2	35.6	8.49 822	1 308	3 16.2
	30	3 46 1.89	8.39	17 30 26.6	36.7	8.48 514	1 290	3 12.1
Okt.	1	3 45 53.50	8.80	17 29 49.9	38.0	8.47 224	1 271	3 8.0
	2	3 45 44.70	9.20	17 29 11.9	39.1	8.45 953	1 252	3 3.9
	3	3 45 35.50	9.60	+17 28 32.8	40.2	8.44 701	1 232	2 59.9
	4	3 45 25.90	9.99	17 27 52.6	41.4	8.43 469	1 213	2 55.8
	5	3 45 15.91	10.37	17 27 11.2	42.5	8.42 256	1 192	2 51.7
	6	3 45 5.54	10.76	17 26 28.7	43.5	8.41 064	1 172	2 47.6
	7	3 44 54.78	11.14	17 25 45.2	44.7	8.39 892	1 151	2 43.5
	8	3 44 43.64	11.51	17 25 0.5	45.7	8.38 741	1 129	2 39.3
	9	3 44 32.13	11.89	+17 24 14.8	46.8	8.37 612	1 107	2 35.2
	10	3 44 20.24	12.24	17 23 28.0	47.8	8.36 505	1 085	2 31.1
	11	3 44 8.00	12.61	17 22 40.2	48.8	8.35 420	1 062	2 27.0
	12	3 43 55.39	12.96	17 21 51.4	49.8	8.34 358	1 039	2 22.8
	13	3 43 42.43	13.30	17 21 1.6	50.8	8.33 319	1 015	2 18.7
	14	3 43 29.13		+17 20 10.8		8.32 304		2 14.5

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Okt.	14	3 43 29.13	13.64	+17 20 10.8	0 51.7	8.32 304	991	2 14.5
	15	3 43 15.49	13.99	17 19 19.1	0 52.6	8.31 313	967	2 10.4
	16	3 43 1.50	14.30	17 18 26.5	0 53.6	8.30 346	942	2 6.2
	17	3 42 47.20	14.63	17 17 32.9	0 54.5	8.29 404	917	2 2.0
	18	3 42 32.57	14.94	17 16 38.4	0 55.3	8.28 487	892	1 57.8
	19	3 42 17.63	15.24	17 15 43.1	0 56.1	8.27 595	865	1 53.7
	20	3 42 2.39	15.54	+17 14 47.0	0 57.0	8.26 730	839	1 49.5
	21	3 41 46.85	15.83	17 13 50.0	0 57.7	8.25 891	812	1 45.3
	22	3 41 31.02	16.10	17 12 52.3	0 58.4	8.25 079	786	1 41.1
	23	3 41 14.92	16.38	17 11 53.9	0 59.2	8.24 293	758	1 36.9
	24	3 40 58.54	16.64	17 10 54.7	0 59.9	8.23 535	730	1 32.7
	25	3 40 41.90	16.88	17 9 54.8	1 0.5	8.22 805	702	1 28.5
	26	3 40 25.02	17.12	+17 8 54.3	1 1.2	8.22 103	674	1 24.3
	27	3 40 7.90	17.36	17 7 53.1	1 1.7	8.21 429	646	1 20.1
	28	3 39 50.54	17.58	17 6 51.4	1 2.3	8.20 783	617	1 15.8
	29	3 39 32.96	17.79	17 5 49.1	1 2.9	8.20 166	588	1 11.6
	30	3 39 15.17	17.99	17 4 46.2	1 3.3	8.19 578	559	1 7.4
	31	3 38 57.18	18.18	17 3 42.9	1 3.8	8.19 019	530	1 3.2
Nov.	1	3 38 39.00	18.37	+17 2 39.1	1 4.3	8.18 489	500	0 58.9
	2	3 38 20.63	18.54	17 1 34.8	1 4.6	8.17 989	471	0 54.7
	3	3 38 2.09	18.70	17 0 30.2	1 5.0	8.17 518	441	0 50.5
	4	3 37 43.39	18.86	16 59 25.2	1 5.3	8.17 077	411	0 46.2
	5	3 37 24.53	19.00	16 58 19.9	1 5.7	8.16 666	381	0 42.0
	6	3 37 5.53	19.13	16 57 14.2	1 5.9	8.16 285	350	0 37.7
	7	3 36 46.40	19.26	+16 56 8.3	1 6.1	8.15 935	319	0 33.5
	8	3 36 27.14	19.37	16 55 2.2	1 6.3	8.15 616	289	0 29.2
	9	3 36 7.77	19.47	16 53 55.9	1 6.5	8.15 327	259	0 25.0
	10	3 35 48.30	19.57	16 52 49.4	1 6.6	8.15 068	227	0 20.7
	11	3 35 28.73	19.64	16 51 42.8	1 6.7	8.14 841	196	0 16.5
	12	3 35 9.09	19.71	16 50 36.1	1 6.7	8.14 645	165	0 12.2
	13	3 34 49.38	19.78	+16 49 29.4	1 6.8	8.14 480	133	0 7.9
	14	3 34 29.60	19.82	16 48 22.6	1 6.7	8.14 347	103	{0 3.7 23 59.4}
	15	3 34 9.78	19.86	16 47 15.9	1 6.6	8.14 244	70	23 55.2
	16	3 33 49.92	19.88	16 46 9.3	1 6.6	8.14 174	39	23 50.9
	17	3 33 30.04	19.89	16 45 2.7	1 6.4	8.14 135	7	23 46.6
	18	3 33 10.15	19.90	16 43 56.3	1 6.2	8.14 128	$\overline{24}$	23 42.4
	19	3 32 50.25	19.88	+16 42 50.1	1 5.9	8.14 152	56	23 38.1
	20	3 32 30.37	19.86	16 41 44.2	1 5.7	8.14 208	88	23 33.8
	21	3 32 10.51	19.82	16 40 38.5	1 5.4	8.14 296	120	23 29.6
	22	3 31 50.69	19.77	16 39 33.1	1 5.0	8.14 416	151	23 25.3
	23	3 31 30.92	19.71	16 38 28.1	1 4.5	8.14 567	183	23 21.1
	24	3 31 11.21		+16 37 23.6		8.14 750		23 16.8

Tag		0ʰ Welt-Zeit Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	″			h m
Nov.	24	3 31 11.21	19.65	+16 37 23.6	64.2	8.14 750	214	23 16.8
	25	3 30 51.56	19.56	16 36 19.4	63.7	8.14 964	246	23 12.6
	26	3 30 32.00	19.46	16 35 15.7	63.1	8.15 210	277	23 8.3
	27	3 30 12.54	19.36	16 34 12.6	62.6	8.15 487	308	23 4.1
	28	3 29 53.18	19.24	16 33 10.0	62.0	8.15 795	338	22 59.8
	29	3 29 33.94	19.12	16 32 8.0	61.3	8.16 133	370	22 55.5
	30	3 29 14.82	18.98	+16 31 6.7	60.6	8.16 503	400	22 51.3
Dez.	1	3 28 55.84	18.84	16 30 6.1	59.9	8.16 903	430	22 47.1
	2	3 28 37.00	18.68	16 29 6.2	59.2	8.17 333	461	22 42.8
	3	3 28 18.32	18.51	16 28 7.0	58.4	8.17 794	491	22 38.6
	4	3 27 59.81	18.34	16 27 8.6	57.5	8.18 285	521	22 34.3
	5	3 27 41.47	18.15	16 26 11.1	56.7	8.18 806	551	22 30.1
	6	3 27 23.32	17.95	+16 25 14.4	55.8	8.19 357	580	22 25.9
	7	3 27 5.37	17.75	16 24 18.6	54.8	8.19 937	609	22 21.6
	8	3 26 47.62	17.53	16 23 23.8	53.9	8.20 546	639	22 17.4
	9	3 26 30.09	17.31	16 22 29.9	52.9	8.21 185	667	22 13.2
	10	3 26 12.78	17.07	16 21 37.0	51.8	8.21 852	697	22 9.0
	11	3 25 55.71	16.83	16 20 45.2	50.7	8.22 549	724	22 4.8
	12	3 25 38.88	16.58	+16 19 54.5	49.7	8.23 273	753	22 0.6
	13	3 25 22.30	16.31	16 19 4.8	48.5	8.24 026	781	21 56.4
	14	3 25 5.99	16.04	16 18 16.3	47.3	8.24 807	809	21 52.2
	15	3 24 49.95	15.76	16 17 29.0	46.1	8.25 616	836	21 48.0
	16	3 24 34.19	15.47	16 16 42.9	44.9	8.26 452	863	21 43.8
	17	3 24 18.72	15.17	16 15 58.0	43.5	8.27 315	890	21 39.6
	18	3 24 3.55	14.86	+16 15 14.5	42.3	8.28 205	916	21 35.4
	19	3 23 48.69	14.55	16 14 32.2	40.9	8.29 121	942	21 31.3
	20	3 23 34.14	14.22	16 13 51.3	39.6	8.30 063	968	21 27.1
	21	3 23 19.92	13.89	16 13 11.7	38.1	8.31 031	993	21 22.9
	22	3 23 6.03	13.54	16 12 33.6	36.7	8.32 024	1 018	21 18.8
	23	3 22 52.49	13.20	16 11 56.9	35.3	8.33 042	1 042	21 14.6
	24	3 22 39.29	12.85	+16 11 21.6	33.8	8.34 084	1 066	21 10.5
	25	3 22 26.44	12.48	16 10 47.8	32.3	8.35 150	1 090	21 6.3
	26	3 22 13.96	12.12	16 10 15.5	30.8	8.36 240	1 112	21 2.2
	27	3 22 1.84	11.75	16 9 44.7	29.2	8.37 352	1 136	20 58.1
	28	3 21 50.09	11.36	16 9 15.5	27.6	8.38 488	1 157	20 54.0
	29	3 21 38.73	10.99	16 8 47.9	26.1	8.39 645	1 179	20 49.8
	30	3 21 27.74	10.60	+16 8 21.8	24.5	8.40 824	1 201	20 45.7
	31	3 21 17.14	10.21	16 7 57.3	22.8	8.42 025	1 222	20 41.6
	32	3 21 6.93		+16 7 34.5		8.43 247		20 37.5

Uranus 1941

Tag		0ʰ Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Jan.	−2	3 21 0.70	24.28	+18 10 1.8	1 26.4	18.83 948	4 969	20 48.3
	+2	20 36.42	21.41	8 35.4	1 15.6	88 917	5 296	20 32.2
	6	20 15.01	18.41	7 19.8	1 4.1	94 213	5 592	20 16.1
	10	19 56.60	15.29	6 15.7	0 52.6	18.99 805	5 859	20 0.1
	14	19 41.31	12.10	5 23.1	0 40.4	19.05 664	6 092	19 44.1
	18	3 19 29.21	8.79	+18 4 42.7	0 27.8	19.11 756	6 298	19 28.2
	22	19 20.42	5.43	4 14.9	0 15.0	18 054	6 471	19 12.3
	26	19 14.99	1.99	3 59.9	0 2.1	24 525	6 611	18 56.5
	30	19 13.00	1.48	3 57.8	0 11.1	31 136	6 714	18 40.8
Febr.	3	19 14.48	4.94	4 8.9	0 24.2	37 850	6 782	18 25.1
	7	3 19 19.42	8.36	+18 4 33.1	0 37.2	19.44 632	6 814	18 9.5
	11	19 27.78	11.75	5 10.3	0 50.0	51 446	6 819	17 53.9
	15	19 39.53	15.11	6 0.3	1 2.4	58 265	6 789	17 38.4
	19	19 54.64	18.41	7 2.7	1 14.8	65 054	6 728	17 22.9
	23	20 13.05	21.66	8 17.5	1 26.7	71 782	6 635	17 7.5
	27	3 20 34.71	24.81	+18 9 44.2	1 38.2	19.78 417	6 510	16 52.1
März	3	20 59.52	27.85	11 22.4	1 49.2	84 927	6 352	16 36.8
	7	21 27.37	30.78	13 11.6	2 0.0	91 279	6 169	16 21.6
	11	21 58.15	33.58	15 11.6	2 9.8	19.97 448	5 958	16 6.4
	15	22 31.73	36.24	17 21.4	2 19.0	20.03 406	5 727	15 51.2
	19	3 23 7.97	38.80	+18 19 40.4	2 27.8	20.09 133	5 468	15 36.1
	23	23 46.77	41.22	22 8.2	2 36.0	14 601	5 185	15 21.0
	27	24 27.99	43.49	24 44.2	2 43.4	19 786	4 882	15 6.0
	31	25 11.48	45.57	27 27.6	2 50.3	24 668	4 555	14 51.0
April	4	25 57.05	47.51	30 17.9	2 56.2	29 223	4 213	14 36.0
	8	3 26 44.56	49.28	+18 33 14.1	3 1.5	20.33 436	3 855	14 21.1
	12	27 33.84	50.86	36 15.6	3 6.2	37 291	3 485	14 6.2
	16	28 24.70	52.30	39 21.8	3 10.1	40 776	3 100	13 51.3
	20	29 17.00	53.59	42 31.9	3 13.5	43 876	2 705	13 36.4
	24	30 10.59	54.68	45 45.4	3 16.3	46 581	2 298	13 21.6
	28	3 31 5.27	55.59	+18 49 1.7	3 17.9	20.48 879	1 880	13 6.8
Mai	2	32 0.86	56.33	52 19.6	3 18.9	50 759	1 459	12 52.0
	6	32 57.19	56.86	55 38.5	3 19.7	52 218	1 034	12 37.2
	10	33 54.05	57.24	+18 58 58.2	3 19.6	53 252	607	12 22.4
	14	34 51.29	57.45	+19 2 17.8	3 18.9	53 859	179	12 7.6
	18	3 35 48.74	57.49	+19 5 36.7	3 17.5	20.54 038	250	11 52.8
	22	36 46.23	57.35	8 54.2	3 15.6	53 788	679	11 38.1
	26	37 43.58	57.04	12 9.8	3 13.1	53 109	1 109	11 23.3
	30	38 40.62	56.50	15 22.9	3 10.2	52 000	1 528	11 8.5
Juni	3	39 37.12	55.81	18 33.1	3 6.3	50 472	1 940	10 53.7
	7	3 40 32.93	54.96	+19 21 39.4	3 2.1	20.48 532	2 345	10 38.9
	11	41 27.89	53.95	24 41.5	2 57.7	46 187	2 738	10 24.1
	15	42 21.84	52.78	27 39.2	2 52.6	43 449	3 125	10 9.2
	19	43 14.62	51.43	30 31.8	2 46.9	40 324	3 501	9 54.4
	23	44 6.05	49.90	33 18.7	2 41.0	36 823	3 863	9 39.5
	27	44 55.95	48.21	35 59.7	2 34.6	32 960	4 209	9 24.6
Juli	1	3 45 44.16		+19 38 34.3		20.28 751		9 9.7

Tag		0h Welt-Zeit: Scheinbare Rektaszension	Diff.	0h Welt-Zeit: Scheinbare Deklination	Diff.	0h Welt-Zeit: Δ	Diff.	Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Juli	1	3 45 44.16	46.36	+19 38 34.3	2 27.5	20.28 751	4 538	9 9.7
	5	46 30.52	44.36	41 1.8	2 20.4	24 213	4 846	8 54.7
	9	47 14.88	42.23	43 22.2	2 12.7	19 367	5 137	8 39.7
	13	47 57.11	39.96	45 34.9	2 5.1	14 230	5 411	8 24.7
	17	48 37.07	37.56	47 40.0	1 56.8	08 819	5 662	8 9.6
	21	3 49 14.63	34.99	+19 49 36.8	1 48.1	20.03 157	5 895	7 54.5
	25	49 49.62	32.29	51 24.9	1 39.4	19.97 262	6 100	7 39.4
	29	50 21.91	29.48	53 4.3	1 30.3	91 162	6 278	7 24.2
Aug.	2	50 51.39	26.56	54 34.6	1 20.9	84 884	6 433	7 8.9
	6	51 17.95	23.58	55 55.5	1 11.6	78 451	6 560	6 53.6
	10	3 51 41.53	20.49	+19 57 7.1	1 1.9	19.71 891	6 658	6 38.3
	14	52 2.02	17.32	58 9.0	0 52.0	65 233	6 735	6 22.9
	18	52 19.34	14.06	59 1.0	0 42.1	58 498	6 782	6 7.5
	22	52 33.40	10.74	+19 59 43.1	0 32.1	51 716	6 795	5 52.0
	26	52 44.14	7.37	+20 0 15.2	0 21.6	44 921	6 777	5 36.4
	30	3 52 51.51	4.01	+20 0 36.8	0 11.5	19.38 144	6 727	5 20.8
Sept.	3	52 55.52	0.65	0 48.3	0 1.3	31 417	6 650	5 5.2
	7	52 56.17	$\overline{2.72}$	0 49.6	$\overline{0\ 8.6}$	24 767	6 542	4 49.4
	11	52 53.45	6.06	0 41.0	0 18.8	18 225	6 404	4 33.6
	15	52 47.39	9.40	+20 0 22.2	0 28.8	11 821	6 235	4 17.8
	19	3 52 37.99	12.66	+19 59 53.4	0 38.5	19.05 586	6 034	4 1.9
	23	52 25.33	15.85	59 14.9	0 48.4	18.99 552	5 803	3 46.0
	27	52 9.48	18.94	58 26.5	0 57.7	93 749	5 538	3 30.0
Okt.	1	51 50.54	21.88	57 28.8	1 6.6	88 211	5 247	3 14.0
	5	51 28.66	24.68	56 22.2	1 15.5	82 964	4 934	2 57.9
	9	3 51 3.98	27.34	+19 55 6.7	1 23.6	18.78 030	4 593	2 41.7
	13	50 36.64	29.85	53 43.1	1 31.5	73 437	4 227	2 25.5
	17	50 6.79	32.16	52 11.6	1 38.7	69 210	3 834	2 9.3
	21	49 34.63	34.24	50 32.9	1 45.6	65 376	3 421	1 53.1
	25	49 0.39	36.10	48 47.3	1 51.5	61 955	2 986	1 36.8
	29	3 48 24.29	37.67	+19 46 55.8	1 56.8	18.58 969	2 537	1 20.4
Nov.	2	47 46.62	39.01	44 59.0	2 1.5	56 432	2 075	1 4.1
	6	47 7.61	40.08	42 57.5	2 5.2	54 357	1 599	0 47.7
	10	46 27.53	40.90	40 52.3	2 8.1	52 758	1 115	0 31.3
	14	45 46.63	41.42	38 44.2	2 10.1	51 643	619	0 14.9
	18	3 45 5.21	41.64	+19 36 34.1	2 11.5	18.51 024	119	23 54.4
	22	44 23.57	41.54	34 22.6	2 11.5	50 905	$\overline{382}$	23 38.0
	26	43 42.03	41.16	32 11.1	2 10.8	51 287	881	23 21.6
	30	43 0.87	40.47	30 0.3	2 8.8	52 168	1 373	23 5.2
Dez.	4	42 20.40	39.51	27 51.5	2 6.1	53 541	1 857	22 48.8
	8	3 41 40.89	38.29	+19 25 45.4	2 2.5	18.55 398	2 335	22 32.4
	12	41 2.60	36.79	23 42.9	1 58.0	57 733	2 798	22 16.0
	16	40 25.81	35.02	21 44.9	1 52.3	60 531	3 249	21 59.7
	20	39 50.79	32.99	19 52.6	1 46.0	63 780	3 682	21 43.4
	24	39 17.80	30.71	18 6.6	1 38.5	67 462	4 091	21 27.2
	28	38 47.09	28.25	16 28.1	1 30.4	71 553	4 477	21 10.9
	32	3 38 18.84		+19 14 57.7		18.76 030		20 54.7

Neptun 1941

Tag		0h Welt-Zeit: Scheinbare Rektaszension		0h Welt-Zeit: Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Jan.	−2	11 53 33.31	0.20	+2 4 6.8	0 14.6	30.05 757	6 804	5 23.5
	+2	53 33.11	2.22	4 21.4	0 27.5	29.98 953	6 687	5 7.8
	6	53 30.89	4.21	4 48.9	0 40.3	92 266	6 539	4 52.0
	10	53 26.68	6.15	5 29.2	0 52.8	85 727	6 358	4 36.2
	14	53 20.53	8.05	6 22.0	1 4.7	79 369	6 144	4 20.4
	18	11 53 12.48	9.91	+2 7 26.7	1 16.4	29.73 225	5 902	4 4.5
	22	53 2.57	11.69	8 43.1	1 27.7	67 323	5 628	3 48.6
	26	52 50.88	13.40	10 10.8	1 38.2	61 695	5 323	3 32.7
	30	52 37.48	15.02	11 49.0	1 48.2	56 372	4 990	3 16.7
Febr.	3	52 22.46	16.53	13 37.2	1 57.4	51 382	4 630	3 0.7
	7	11 52 5.93	17.90	+2 15 34.6	2 5.8	29.46 752	4 250	2 44.7
	11	51 48.03	19.19	17 40.4	2 13.5	42 502	3 849	2 28.7
	15	51 28.84	20.34	19 53.9	2 20.2	38 653	3 429	2 12.7
	19	51 8.50	21.37	22 14.1	2 26.1	35 224	2 992	1 56.6
	23	50 47.13	22.26	24 40.2	2 31.1	32 232	2 536	1 40.5
	27	11 50 24.87	22.98	+2 27 11.3	2 35.0	29.29 696	2 070	1 24.4
März	3	50 1.89	23.57	29 46.3	2 38.0	27 626	1 593	1 8.3
	7	49 38.32	24.00	32 24.3	2 39.9	26 033	1 110	0 52.2
	11	49 14.32	24.26	35 4.2	2 40.7	24 923	626	0 36.1
	15	48 50.06	24.39	37 44.9	2 40.7	24 297	139	0 20.0
	19	11 48 25.67	24.35	+2 40 25.6	2 39.5	29.24 158	346	0 3.8 23 59.8
	23	48 1.32	24.18	43 5.1	2 37.6	24 504	833	23 43.7
	27	47 37.14	23.84	45 42.7	2 34.5	25 337	1 313	23 27.5
	31	47 13.30	23.34	48 17.2	2 30.5	26 650	1 784	23 11.4
April	4	46 49.96	22.69	50 47.7	2 25.3	28 434	2 241	22 55.3
	8	11 46 27.27	21.91	+2 53 13.0	2 19.5	29.30 675	2 687	22 39.2
	12	46 5.36	21.01	55 32.5	2 12.9	33 362	3 115	22 23.1
	16	45 44.35	19.98	57 45.4	2 5.7	36 477	3 528	22 7.1
	20	45 24.37	18.83	+2 59 51.1	1 57.3	40 005	3 925	21 51.0
	24	45 5.54	17.57	+3 1 48.4	1 48.4	43 930	4 301	21 35.0
	28	11 44 47.97	16.18	+3 3 36.8	1 39.0	29.48 231	4 652	21 18.9
Mai	2	44 31.79	14.70	5 15.8	1 28.8	52 883	4 980	21 3.0
	6	44 17.09	13.15	6 44.6	1 18.2	57 863	5 279	20 47.0
	10	44 3.94	11.52	8 2.8	1 7.4	63 142	5 554	20 31.0
	14	43 52.42	9.84	9 10.2	0 55.9	68 696	5 802	20 15.1
	18	11 43 42.58	8.10	+3 10 6.1	0 44.2	29.74 498	6 024	19 59.3
	22	43 34.48	6.29	10 50.3	0 32.2	80 522	6 220	19 43.4
	26	43 28.19	4.43	11 22.5	0 20.0	86 742	6 381	19 27.6
	30	43 23.76	2.55	11 42.5	0 7.7	93 123	6 511	19 11.8
Juni	3	43 21.21	0.66	11 50.2	0 4.7	29.99 634	6 613	18 56.0
	7	11 43 20.55	1.24	+3 11 45.5	0 17.1	30.06 247	6 681	18 40.3
	11	43 21.79	3.13	11 28.4	0 29.3	12 928	6 724	18 24.6
	15	43 24.92	5.03	10 59.1	0 41.7	19 652	6 739	18 8.9
	19	43 29.95	6.91	10 17.4	0 53.8	26 391	6 720	17 53.3
	23	43 36.86	8.80	9 23.6	1 6.0	33 111	6 672	17 37.7
	27	43 45.66	10.64	8 17.6	1 17.6	39 783	6 595	17 22.1
Juli	1	11 43 56.30		+3 7 0.0		30.46 378		17 6.6

Tag		0h Welt-Zeit: Scheinbare Rektaszension		Scheinbare Deklination		Δ		Obere Kulmination in Greenwich
1941		h m s	s	° ′ ″	′ ″			h m
Juli	1	11 43 56.30	12.44	+3 7 0.0	1 29.1	30.46 378	6 486	17 6.6
	5	44 8.74	14.18	5 30.9	1 40.2	52 864	6 350	16 51.0
	9	44 22.92	15.89	3 50.7	1 51.1	59 214	6 190	16 35.5
	13	44 38.81	17.54	+3 1 59.6	2 1.3	65 404	6 003	16 20.1
	17	44 56.35	19.14	+2 59 58.3	2 11.3	71 407	5 791	16 4.7
	21	11 45 15.49	20.68	+2 57 47.0	2 20.9	30.77 198	5 554	15 49.2
	25	45 36.17	22.13	55 26.1	2 30.1	82 752	5 291	15 33.9
	29	45 58.30	23.51	52 56.0	2 38.4	88 043	5 003	15 18.5
Aug.	2	46 21.81	24.81	50 17.6	2 46.3	93 046	4 696	15 3.2
	6	46 46.62	26.00	47 31.3	2 53.6	30.97 742	4 373	14 47.9
	10	11 47 12.62	27.13	+2 44 37.7	3 0.4	31.02 115	4 030	14 32.6
	14	47 39.75	28.15	41 37.3	3 6.6	06 145	3 671	14 17.3
	18	48 7.90	29.10	38 30.7	3 12.1	09 816	3 292	14 2.0
	22	48 37.00	29.95	35 18.6	3 16.9	13 108	2 897	13 46.8
	26	49 6.95	30.68	32 1.7	3 21.2	16 005	2 487	13 31.6
	30	11 49 37.63	31.29	+2 28 40.5	3 24.5	31.18 492	2 073	13 16.3
Sept.	3	50 8.92	31.81	25 16.0	3 27.3	20 565	1 648	13 1.1
	7	50 40.73	32.22	21 48.7	3 29.2	22 213	1 215	12 45.9
	11	51 12.95	32.53	18 19.5	3 30.5	23 428	775	12 30.8
	15	51 45.48	32.71	14 49.0	3 31.3	24 203	329	12 15.6
	19	11 52 18.19	32.81	+2 11 17.7	3 31.1	31.24 532	$\overline{120}$	12 0.4
	23	52 51.00	32.77	7 46.6	3 30.1	24 412	574	11 45.2
	27	53 23.77	32.60	4 16.5	3 28.3	23 838	1 022	11 30.0
Okt.	1	53 56.37	32.31	+2 0 48.2	3 25.9	22 816	1 465	11 14.8
	5	54 28.68	31.93	+1 57 22.3	3 22.7	21 351	1 904	10 59.6
	9	11 55 0.61	31.43	+1 53 59.6	3 18.8	31.19 447	2 337	10 44.4
	13	55 32.04	30.83	50 40.8	3 14.2	17 110	2 763	10 29.2
	17	56 2.87	30.09	47 26.6	3 8.7	14 347	3 180	10 14.0
	21	56 32.96	29.24	44 17.9	3 2.6	11 167	3 587	9 58.8
	25	57 2.20	28.28	41 15.3	2 55.7	07 580	3 973	9 43.5
	29	11 57 30.48	27.22	+1 38 19.6	2 48.2	31.03 607	4 343	9 28.3
Nov.	2	57 57.70	26.04	35 31.4	2 39.9	30.99 264	4 694	9 13.0
	6	58 23.74	24.78	32 51.5	2 31.3	94 570	5 028	8 57.7
	10	58 48.52	23.42	30 20.2	2 21.8	89 542	5 342	8 42.4
	14	59 11.94	21.96	27 58.4	2 11.8	84 200	5 631	8 27.0
	18	11 59 33.90	20.40	+1 25 46.6	2 1.2	30.78 569	5 897	8 11.7
	22	11 59 54.30	18.76	23 45.4	1 50.0	72 672	6 132	7 56.3
	26	12 0 13.06	17.04	21 55.4	1 38.7	66 540	6 341	7 40.9
	30	0 30.10	15.27	20 16.7	1 26.6	60 199	6 517	7 25.4
Dez.	4	0 45.37	13.43	18 50.1	1 14.4	53 682	6 666	7 9.9
	8	12 0 58.80	11.54	+1 17 35.7	1 1.9	30.47 016	6 786	6 54.4
	12	1 10.34	9.61	16 33.8	0 49.0	40 230	6 871	6 38.9
	16	1 19.95	7.62	15 44.8	0 36.0	33 359	6 924	6 23.3
	20	1 27.57	5.60	15 8.8	0 22.8	26 435	6 942	6 7.7
	24	1 33.17	3.57	14 46.0	0 9.6	19 493	6 923	5 52.1
	28	1 36.74	1.55	14 36.4	$\overline{0\ 3.7}$	12 570	6 871	5 36.4
	32	12 1 38.29		+1 14 40.1		30.05 699		5 20.7

Pluto 1941

Tag		0h Welt-Zeit								Obere Kulmination in Greenwich
	Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	log Δ		Lichtzeit	
1941	h m s	s	s	° ′ ″	″	″			d	h m
Jan. −2	8 29 6.77	20.02	+1.28	+23 24 40.9	98.2	−5.1	1.576 9778	3628	0.2179	1 59
+2	28 46.75	20.82	1.32	26 19.1	98.7	5.1	576 6150	3102	2177	1 43
6	28 25.93	21.47	1.36	27 57.8	98.9	5.1	576 3048	2560	2175	1 27
10	28 4.46	21.98	1.39	29 36.7	98.5	5.1	576 0488	2007	2174	1 11
14	27 42.48	22.37	1.42	31 15.2	97.6	5.1	575 8481	1446	2173	0 55
18	8 27 20.11	22.62	+1.44	+23 32 52.8	96.1	−5.0	1.575 7035	877	0.2172	0 39
22	26 57.49	22.74	1.45	34 28.9	94.2	4.9	575 6158	304	2172	0 22
26	26 34.75	22.70	1.45	36 3.1	91.8	4.8	575 5854	$\overline{269}$	2172	0 6
30	26 12.05	22.51	1.44	37 34.9	88.9	4.6	575 6123	839	2172	23 46
Febr. 3	25 49.54	22.19	1.43	39 3.8	85.6	4.5	575 6962	1399	2172	23 30
7	8 25 27.35	21.72	+1.41	+23 40 29.4	81.8	−4.3	1.575 8361	1946	0.2173	23 14
11	25 5.63	21.11	1.38	41 51.2	77.6	4.1	576 0307	2480	2174	22 58
15	24 44.52	20.39	1.34	43 8.8	73.1	3.8	576 2787	2998	2175	22 42
19	24 24.13	19.55	1.30	44 21.9	68.3	3.6	576 5785	3498	2176	22 26
23	24 4.58	18.58	1.25	45 30.2	63.2	3.3	576 9283	3977	2178	22 10
27	8 23 46.00	17.48	+1.20	+23 46 33.4	57.8	−3.0	1.577 3260	4431	0.2180	21 54
März 3	23 28.52	16.28	1.13	47 31.2	52.1	2.7	577 7691	4856	2182	21 38
7	23 12.24	14.99	1.07	48 23.3	46.3	2.4	578 2547	5250	2185	21 22
11	22 57.25	13.61	1.00	49 9.6	40.3	2.1	578 7797	5612	2188	21 6
15	22 43.64	12.16	0.92	49 49.9	34.3	1.8	579 3409	5944	2190	20 50
19	8 22 31.48	10.64	+0.84	+23 50 24.2	28.1	−1.4	1.579 9353	6245	0.2193	20 34
23	22 20.84	9.04	0.75	50 52.3	21.9	1.1	580 5598	6512	2197	20 18
27	22 11.80	7.39	0.66	51 14.2	15.5	0.7	581 2110	6742	2200	20 2
31	22 4.41	5.69	0.57	51 29.7	9.3	0.4	581 8852	6935	2203	19 46
April 4	21 58.72	3.97	0.48	51 39.0	3.1	−0.1	582 5787	7089	2207	19 31
8	8 21 54.75	2.22	+0.38	+23 51 42.1	$\overline{3.1}$	+0.3	1.583 2876	7207	0.2210	19 15
12	21 52.53	0.46	0.29	51 39.0	9.2	0.6	584 0083	7289	2214	18 59
16	21 52.07	$\overline{1.30}$	0.19	51 29.8	15.1	1.0	584 7372	7336	2218	18 43
20	21 53.37	3.08	+0.09	51 14.7	20.9	1.3	585 4708	7349	2222	18 28
24	21 56.45	4.84	−0.01	50 53.8	26.6	1.6	586 2057	7326	2225	18 12
28	8 22 1.29	6.59	−0.11	+23 50 27.2	32.1	+1.9	1.586 9383	7265	0.2229	17 56
Mai 2	22 7.88	8.30	0.20	49 55.1	37.4	2.2	587 6648	7169	2233	17 41
6	22 16.18	9.99	0.30	49 17.7	42.5	2.5	588 3817	7041	2236	17 25
10	22 26.17	11.63	0.39	48 35.2	47.5	2.8	589 0858	6882	2240	17 10
14	22 37.80	13.22	0.49	47 47.7	52.1	3.1	589 7740	6695	2244	16 54
18	8 22 51.02	14.77	−0.58	+23 46 55.6	56.4	+3.3	1.590 4435	6479	0.2247	16 39
22	23 5.79	16.27	0.66	45 59.2	60.5	3.6	591 0914	6232	2250	16 23
26	23 22.06	17.71	0.75	44 58.7	64.4	3.8	591 7146	5957	2254	16 8
30	23 39.77	19.06	0.83	43 54.3	67.9	4.0	592 3103	5656	2257	15 52
Juni 3	23 58.83	20.35	0.90	42 46.4	71.2	4.2	592 8759	5332	2260	15 37
7	8 24 19.18	21.55	−0.97	+23 41 35.2	74.1	+4.4	1.593 4091	4987	0.2263	15 21
11	24 40.73	22.67	1.04	40 21.1	76.7	4.5	593 9078	4624	2265	15 6
15	25 3.40	23.72	1.10	39 4.4	79.0	4.7	594 3702	4241	2268	14 51
19	25 27.12	24.69	1.16	37 45.4	81.1	4.8	594 7943	3838	2270	14 35
23	25 51.81	25.57	1.21	36 24.3	82.8	4.9	595 1781	3418	2272	14 20
27	26 17.38	26.35	1.26	35 1.5	84.0	5.0	595 5199	2984	2274	14 5
Juli 1	8 26 43.73		−1.31	+23 33 37.5		+5.0	1.595 8183		0.2275	13 49

Tag		0h Welt-Zeit								Lichtzeit	Obere Kulmination in Greenwich
		Rektaszension 1950.0		Fixstern-aberration	Deklination 1950.0		Fixstern-aberration	log Δ			
1941		h m s	s	s	° ′ ″	″	″			d	h m
Juli	1	8 26 43.73	27.02	−1.31	+23 33 37.5	84.9	+5.0	1.595 8183	2536	0.2275	13 49
	5	27 10.75	27.61	1.34	32 12.6	85.6	5.1	596 0719	2080	2276	13 34
	9	27 38.36	28.09	1.37	30 47.0	85.8	5.1	596 2799	1616	2277	13 19
	13	28 6.45	28.49	1.40	29 21.2	85.8	5.1	596 4415	1143	2278	13 4
	17	28 34.94	28.79	1.42	27 55.4	85.4	5.1	596 5558	665	2279	12 48
	21	8 29 3.73	28.97	−1.43	+23 26 30.0	84.5	+5.0	1.596 6223	181	0.2279	12 33
	25	29 32.70	29.06	1.44	25 5.5	83.3	5.0	596 6404	$\overline{307}$	2279	12 18
	29	30 1.76	29.04	1.44	23 42.2	81.8	4.9	596 6097	795	2279	12 3
Aug.	2	30 30.80	28.91	1.44	22 20.4	79.9	4.8	596 5302	1279	2279	11 47
	6	30 59.71	28.70	1.43	21 0.5	77.6	4.7	596 4023	1761	2278	11 32
	10	8 31 28.41	28.38	−1.41	+23 19 42.9	75.1	+4.6	1.596 2262	2238	0.2277	11 17
	14	31 56.79	27.96	1.39	18 27.8	72.1	4.4	596 0024	2710	2276	11 1
	18	32 24.75	27.44	1.36	17 15.7	68.8	4.2	595 7314	3176	2275	10 46
	22	32 52.19	26.81	1.33	16 6.9	65.2	4.0	595 4138	3631	2273	10 31
	26	33 19.00	26.07	1.29	15 1.7	61.1	3.8	595 0507	4071	2271	10 16
	30	8 33 45.07	25.25	−1.24	+23 14 0.6	56.8	+3.6	1.594 6436	4497	0.2269	10 0
Sept.	3	34 10.32	24.34	1.19	13 3.8	52.2	3.3	594 1939	4908	2267	9 45
	7	34 34.66	23.34	1.14	12 11.6	47.4	3.0	593 7031	5303	2264	9 30
	11	34 58.00	22.26	1.08	11 24.2	42.3	2.7	593 1728	5680	2261	9 14
	15	35 20.26	21.08	1.01	10 41.9	36.8	2.4	592 6048	6036	2258	8 59
	19	8 35 41.34	19.81	−0.94	+23 10 5.1	31.1	+2.1	1.592 0012	6371	0.2255	8 44
	23	36 1.15	18.47	0.86	9 34.0	25.2	1.8	591 3641	6679	2252	8 28
	27	36 19.62	17.05	0.78	9 8.8	19.0	1.4	590 6962	6960	2248	8 13
Okt.	1	36 36.67	15.56	0.70	8 49.8	12.7	1.1	590 0002	7212	2245	7 57
	5	36 52.23	14.03	0.62	8 37.1	6.4	0.7	589 2790	7436	2241	7 42
	9	8 37 6.26	12.43	−0.53	+23 8 30.7	$\overline{0.2}$	+0.3	1.588 5354	7630	0.2237	7 26
	13	37 18.69	10.78	0.43	8 30.9	6.8	0.0	587 7724	7793	2233	7 11
	17	37 29.47	9.09	0.34	8 37.7	13.6	−0.4	586 9931	7923	2229	6 55
	21	37 38.56	7.34	0.24	8 51.3	20.3	0.8	586 2008	8016	2225	6 40
	25	37 45.90	5.56	0.14	9 11.6	27.0	1.1	585 3992	8071	2221	6 24
	29	8 37 51.46	3.78	−0.04	+23 9 38.6	33.7	−1.5	1.584 5921	8090	0.2217	6 9
Nov.	2	37 55.24	1.98	+0.06	10 12.3	40.2	1.9	583 7831	8072	2213	5 53
	6	37 57.22	0.18	0.16	10 52.5	46.6	2.2	582 9759	8018	2209	5 37
	10	37 57.40	$\overline{1.61}$	0.26	11 39.1	52.9	2.6	582 1741	7927	2205	5 22
	14	37 55.79	3.41	0.35	12 32.0	59.0	2.9	581 3814	7796	2201	5 6
	18	8 37 52.38	5.19	+0.45	+23 13 31.0	64.9	−3.2	1.580 6018	7625	0.2197	4 50
	22	37 47.19	6.92	0.55	14 35.9	70.4	3.5	579 8393	7414	2193	4 34
	26	37 40.27	8.61	0.64	15 46.3	75.5	3.8	579 0979	7166	2189	4 18
	30	37 31.66	10.23	0.73	17 1.8	80.4	4.1	578 3813	6882	2186	4 2
Dez.	4	37 21.43	11.80	0.82	18 22.2	84.8	4.3	577 6931	6565	2182	3 47
	8	8 37 9.63	13.31	+0.90	+23 19 47.0	88.9	−4.5	1.577 0366	6214	0.2179	3 31
	12	36 56.32	14.73	0.98	21 15.9	92.4	4.7	576 4152	5829	2176	3 15
	16	36 41.59	16.07	1.05	22 48.3	95.5	4.9	575 8323	5412	2173	2 59
	20	36 25.52	17.30	1.12	24 23.8	98.1	5.1	575 2911	4966	2170	2 43
	24	36 8.22	18.42	1.18	26 1.9	100.2	5.2	574 7945	4491	2168	2 27
	28	35 49.80	19.42	1.24	27 42.1	101.6	5.3	574 3454	3993	2165	2 11
	32	8 35 30.38		+1.29	+23 29 23.7		−5.3	1.573 9461		0.2163	1 55

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			*ΔX*)*	*Y*			*ΔY*)*	*Z*			*ΔZ*)*
1941												
Jan. 0	+0.159 044	+17 239	− 51	−4	−0.890 246	+ 2 750	+278	−5	−0.386 107	+1 192	+120	−2
1	0.176 283	17 183	56	−1	0.887 496	3 027	277	−3	0.384 915	1 313	121	+3
2	0.193 466	17 122	61	0	0.884 469	3 303	276	+2	0.383 602	1 432	119	−1
3	0.210 588	17 054	68	−3	0.881 166	3 578	275	+5	0.382 170	1 551	119	+1
4	0.227 642	16 982	72	+3	0.877 588	3 852	274	+5	0.380 619	1 670	119	+3
5	0.244 624	16 905	77	+5	0.873 736	4 123	271	−1	0.378 949	1 788	118	+2
6	+0.261 529	+16 822	− 83	+2	−0.869 613	+ 4 393	+270	−1	−0.377 161	+1 905	+117	−3
7	0.278 351	16 734	88	0	0.865 220	4 662	269	+1	0.375 256	2 021	116	−4
8	0.295 085	16 641	93	0	0.860 558	4 929	267	−1	0.373 235	2 137	116	+1
9	0.311 726	16 543	98	+1	0.855 629	5 193	264	−5	0.371 098	2 252	115	+2
10	0.328 269	16 441	102	+3	0.850 436	5 457	264	+1	0.368 846	2 367	115	+5
11	0.344 710	16 333	108	−2	0.844 979	5 718	261	+1	0.366 479	2 480	113	+1
12	+0.361 043	+16 221	−112	−2	−0.839 261	+ 5 978	+260	+4	−0.363 999	+2 593	+113	+1
13	0.377 264	16 103	118	−4	0.833 283	6 236	258	+3	0.361 406	2 705	112	−1
14	0.393 367	15 983	120	+4	0.827 047	6 491	255	−2	0.358 701	2 816	111	−3
15	0.409 350	15 856	127	−2	0.820 556	6 745	254	+1	0.355 885	2 926	110	−5
16	0.425 206	15 726	130	+1	0.813 811	6 998	253	+3	0.352 959	3 035	109	−4
17	0.440 932	15 590	136	−3	0.806 813	7 248	250	−3	0.349 924	3 144	109	+1
18	+0.456 522	+15 450	−140	0	−0.799 565	+ 7 495	+247	−5	−0.346 780	+3 252	+108	+2
19	0.471 972	15 306	144	+2	0.792 070	7 743	248	+3	0.343 528	3 359	107	0
20	0.487 278	15 155	151	−4	0.784 327	7 986	243	−4	0.340 169	3 464	105	−3
21	0.502 433	15 001	154	0	0.776 341	8 229	243	+2	0.336 705	3 570	106	+3
22	0.517 434	14 841	160	0	0.768 112	8 468	239	−3	0.333 135	3 673	103	−4
23	0.532 275	14 677	164	+4	0.759 644	8 705	237	+1	0.329 462	3 776	103	−2
24	+0.546 952	+14 508	−169	+3	−0.750 939	+ 8 940	+235	+5	−0.325 686	+3 877	+101	−2
25	0.561 460	14 334	174	0	0.741 999	9 172	232	+3	0.321 809	3 978	101	+2
26	0.575 794	14 154	180	−5	0.732 827	9 400	228	0	0.317 831	4 077	99	+1
27	0.589 948	13 971	183	−1	0.723 427	9 626	226	+4	0.313 754	4 174	97	0
28	0.603 919	13 783	188	−2	0.713 801	9 848	222	+1	0.309 580	4 271	97	+5
29	0.617 702	13 590	193	−5	0.703 953	10 067	219	+2	0.305 309	4 366	95	+2
30	+0.631 292	+13 393	−197	−4	−0.693 886	+10 282	+215	−1	−0.300 943	+4 459	+ 93	−3
31	0.644 685	13 192	201	0	0.683 604	10 494	212	−2	0.296 484	4 550	91	−5
Febr. 1	0.657 877	12 988	204	+3	0.673 110	10 701	207	−5	0.291 934	4 641	91	+2
2	0.670 865	12 778	210	−3	0.662 409	10 906	205	0	0.287 293	4 730	89	0
3	0.683 643	12 567	211	+3	0.651 503	11 107	201	+1	0.282 563	4 816	86	−4
4	0.696 210	12 350	217	−5	0.640 396	11 303	196	−2	0.277 747	4 902	86	0
5	+0.708 560	+12 130	−220	−3	−0.629 093	+11 497	+194	+2	−0.272 845	+4 986	+ 84	+1
6	0.720 690	11 907	223	0	0.617 596	11 686	189	−3	0.267 859	5 068	82	−1
7	0.732 597	11 681	226	+3	0.605 910	11 871	185	−3	0.262 791	5 149	81	0
8	0.744 278	11 452	229	+4	0.594 039	12 053	182	−1	0.257 642	5 227	78	−4
9	0.755 730	+11 219	233	0	0.581 986	+12 230	177	−3	0.252 415	+5 305	78	+1
10	+0.766 949		−235	+1	−0.569 756		+175	+1	−0.247 110		+ 75	0

*) *ΔX*, *ΔY*, *ΔZ* sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Febr. 10	+0.766 949	+10 984	−235	+1	−0.569 756	+12 405	+175	+1	−0.247 110	+5 380	+75	0
11	0.777 933	10 745	239	−1	0.557 351	12 574	169	−4	0.241 730	5 455	75	+3
12	0.788 678	10 505	240	+3	0.544 777	12 741	167	+2	0.236 275	5 526	71	−3
13	0.799 183	10 260	245	−3	0.532 036	12 904	163	+3	0.230 749	5 598	72	+3
14	0.809 443	10 014	246	0	0.519 132	13 064	160	+5	0.225 151	5 666	68	−3
15	0.819 457	9 763	251	−4	0.506 068	13 219	155	−2	0.219 485	5 734	68	+1
16	+0.829 220	+ 9 511	−252	+3	−0.492 849	+13 370	+151	−5	−0.213 751	+5 800	+66	−1
17	0.838 731	9 255	256	+3	0.479 479	13 519	149	+2	0.207 951	5 864	64	−3
18	0.847 986	8 997	258	+5	0.465 960	13 663	144	−1	0.202 087	5 926	62	−5
19	0.856 983	8 735	262	+2	0.452 297	13 802	139	−4	0.196 161	5 986	60	−3
20	0.865 718	8 471	264	+2	0.438 495	13 939	137	+2	0.190 175	6 046	60	+4
21	0.874 189	8 203	268	−3	0.424 556	14 069	130	−4	0.184 129	6 102	56	−2
22	+0.882 392	+ 7 933	−270	−2	−0.410 487	+14 197	+128	+3	−0.178 027	+6 157	+55	−1
23	0.890 325	7 661	272	+1	0.396 290	14 319	122	+1	0.171 870	6 210	53	+1
24	0.897 986	7 385	276	−4	0.381 971	14 437	118	+2	0.165 660	6 261	51	+1
25	0.905 371	7 108	277	+2	0.367 534	14 550	113	+1	0.159 399	6 310	49	+1
26	0.912 479	6 829	279	+3	0.352 984	14 658	108	0	0.153 089	6 357	47	0
27	0.919 308	6 548	281	+1	0.338 326	14 761	103	+1	0.146 732	6 401	44	−2
28	+0.925 856	+ 6 264	−284	−5	−0.323 565	+14 860	+ 99	+4	−0.140 331	+6 444	+43	+3
März 1	0.932 120	5 979	285	−3	0.308 705	14 954	94	+2	0.133 887	6 485	41	+5
2	0.938 099	5 693	286	−1	0.293 751	15 042	88	−3	0.127 402	6 524	39	+3
3	0.943 792	5 405	288	−2	0.278 709	15 126	84	−4	0.120 878	6 560	36	−3
4	0.949 197	5 116	289	0	0.263 583	15 204	78	−5	0.114 318	6 594	34	−5
5	0.954 313	4 826	290	+2	0.248 379	15 279	75	+3	0.107 724	6 626	32	−4
6	+0.959 139	+ 4 535	−291	+4	−0.233 100	+15 348	+ 69	+2	−0.101 098	+6 656	+30	0
7	0.963 674	4 244	291	+4	0.217 752	15 413	65	+2	0.094 442	6 685	29	+5
8	0.967 918	3 950	294	−3	0.202 339	15 472	59	−1	0.087 757	6 711	26	+1
9	0.971 868	3 658	292	+3	0.186 867	15 527	55	+1	0.081 046	6 735	24	−2
10	0.975 526	3 364	294	−2	0.171 340	15 578	51	+3	0.074 311	6 756	21	−5
11	0.978 890	3 069	295	−3	0.155 762	15 623	45	−2	0.067 555	6 777	21	+1
12	+0.981 959	+ 2 776	−293	+4	−0.140 139	+15 665	+ 42	+1	−0.060 778	+6 794	+17	−3
13	0.984 735	2 480	296	−3	0.124 474	15 702	37	−1	0.053 984	6 811	17	+5
14	0.987 215	2 185	295	+2	0.108 772	15 735	33	0	0.047 173	6 825	14	+4
15	0.989 400	1 889	296	+1	0.093 037	15 763	28	−3	0.040 348	6 838	13	+4
16	0.991 289	1 593	296	+4	0.077 274	15 787	24	−1	0.033 510	6 848	10	−1
17	0.992 882	1 296	297	+4	0.061 487	15 807	20	+2	0.026 662	6 856	8	−4
18	+0.994 178	+ 999	−297	+5	−0.045 680	+15 822	+ 15	+1	−0.019 806	+6 862	+ 6	−2
19	0.995 177	701	298	+4	0.029 858	15 833	11	+2	0.012 944	6 867	5	+4
20	0.995 878	403	298	+4	−0.014 025	15 838	5	−1	−0.006 077	6 870	+ 3	+4
21	0.996 281	+ 105	298	+2	+0.001 813	15 840	+ 2	+3	+0.000 793	6 869	− 1	−3
22	0.996 386	− 194	299	−4	0.017 653	+15 835	− 5	−1	0.007 662	+6 868	1	+4
23	+0.996 192		−299	−4	+0.033 488		− 8	+5	+0.014 530		− 4	+1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1950.0 X	1. Diff.	2. Diff.	ΔX*)	Y	1. Diff.	2. Diff.	ΔY*)	Z	1. Diff.	2. Diff.	ΔZ*)
1941												
März 23	+0.996 192	− 493	−299	−4	+0.033 488	+15 827	− 8	+5	+0.014 530	+6 864	− 4	+1
24	0.995 699	791	298	−1	0.049 315	15 814	13	+4	0.021 394	6 858	6	0
25	0.994 908	1 089	298	−2	0.065 129	15 794	20	−4	0.028 252	6 849	9	−2
26	0.993 819	1 387	298	−4	0.080 923	15 771	23	0	0.035 101	6 840	9	+4
27	0.992 432	1 683	296	0	0.096 694	15 742	29	−2	0.041 941	6 826	14	−4
28	0.990 749	1 980	297	−4	0.112 436	15 708	34	−3	0.048 767	6 813	13	+3
29	+0.988 769	− 2 275	−295	−2	+0.128 144	+15 670	− 38	0	+0.055 580	+6 795	−18	−4
30	0.986 494	2 569	294	−1	0.143 814	15 626	44	−2	0.062 375	6 777	18	+2
31	0.983 925	2 862	293	−1	0.159 440	15 578	48	+1	0.069 152	6 756	21	−1
April 1	0.981 063	3 154	292	−2	0.175 018	15 525	53	+2	0.075 908	6 733	23	−1
2	0.977 909	3 444	290	+2	0.190 543	15 467	58	+3	0.082 641	6 708	25	−1
3	0.974 465	3 732	288	+4	0.206 010	15 405	62	+5	0.089 349	6 681	27	0
4	+0.970 733	− 4 019	−287	+2	+0.221 415	+15 338	− 67	+5	+0.096 030	+6 653	−28	+3
5	0.966 714	4 305	286	−2	0.236 753	15 267	71	+4	0.102 683	6 621	32	−4
6	0.962 409	4 588	283	+3	0.252 020	15 191	76	0	0.109 304	6 589	32	+2
7	0.957 821	4 869	281	+5	0.267 211	15 110	81	−4	0.115 893	6 554	35	0
8	0.952 952	5 148	279	+3	0.282 321	15 027	83	+3	0.122 447	6 518	36	+3
9	0.947 804	5 426	278	−2	0.297 348	14 938	89	−1	0.128 965	6 480	38	+1
10	+0.942 378	− 5 701	−275	−1	+0.312 286	+14 847	− 91	+4	+0.135 445	+6 440	−40	−2
11	0.936 677	5 975	274	−2	0.327 133	14 750	97	−2	0.141 885	6 398	42	−3
12	0.930 702	6 246	271	+1	0.341 883	14 651	99	+3	0.148 283	6 355	43	−2
13	0.924 456	6 516	270	−1	0.356 534	14 548	103	+1	0.154 638	6 310	45	−3
14	0.917 940	6 784	268	−2	0.371 082	14 440	108	−5	0.160 948	6 263	47	−5
15	0.911 156	7 051	267	−2	0.385 522	14 328	112	−4	0.167 211	6 214	49	−3
16	+0.904 105	− 7 314	−263	+4	+0.399 850	+14 214	−114	+3	+0.173 425	+6 165	−49	+4
17	0.896 791	7 577	263	−4	0.414 064	14 094	120	−4	0.179 590	6 113	52	0
18	0.889 214	7 838	261	−4	0.428 158	13 970	124	−5	0.185 703	6 058	55	−4
19	0.881 376	8 096	258	0	0.442 128	13 843	127	−1	0.191 761	6 004	54	+4
20	0.873 280	8 351	255	+3	0.455 971	13 710	133	−5	0.197 765	5 946	58	−4
21	0.864 929	8 605	254	−3	0.469 681	13 575	135	+1	0.203 711	5 886	60	−5
22	+0.856 324	− 8 856	−251	−3	+0.483 256	+13 434	−141	−4	+0.209 597	+5 826	−60	+3
23	0.847 468	9 104	248	0	0.496 690	13 290	144	0	0.215 423	5 763	63	+2
24	0.838 364	9 349	245	0	0.509 980	13 141	149	−2	0.221 186	5 699	64	+5
25	0.829 015	9 591	242	0	0.523 121	12 989	152	+3	0.226 885	5 633	66	+3
26	0.819 424	9 830	239	−2	0.536 110	12 833	156	+3	0.232 518	5 565	68	+2
27	0.809 594	10 067	237	−5	0.548 943	12 673	160	+1	0.238 083	5 496	69	+3
28	+0.799 527	−10 299	−232	+1	+0.561 616	+12 509	−164	−1	+0.243 579	+5 425	−71	+2
29	0.789 228	10 528	229	+3	0.574 125	12 341	168	−4	0.249 004	5 352	73	0
30	0.778 700	10 754	226	+1	0.586 466	12 170	171	0	0.254 356	5 278	74	+2
Mai 1	0.767 946	10 975	221	+4	0.598 636	11 996	174	+3	0.259 634	5 203	75	+5
2	0.756 971	−11 195	220	−4	0.610 632	+11 818	178	−2	0.264 837	+5 126	77	+2
3	+0.745 776		−214	+2	+0.622 450		−182	−4	+0.269 963		−79	−1

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit		Mittleres Äquinoktium 1950.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941													
Mai	3	+0.745 776	−11 409	−214	+2	+0.622 450	+11 636	−182	−4	+0.269 963	+5 047	− 79	−1
	4	0.734 367	11 620	211	+3	0.634 086	11 453	183	+3	0.275 010	4 968	79	+2
	5	0.722 747	11 826	206	+4	0.645 539	11 265	188	−3	0.279 978	4 886	82	−3
	6	0.710 921	12 030	204	−4	0.656 804	11 075	190	−1	0.284 864	4 804	82	+2
	7	0.698 891	12 230	200	−5	0.667 879	10 883	192	+4	0.289 668	4 721	83	+4
	8	0.686 661	12 425	195	−1	0.678 762	10 687	196	0	0.294 389	4 636	85	+1
	9	+0.674 236	−12 618	−193	−5	+0.689 449	+10 490	−197	+4	+0.299 025	+4 550	− 86	−1
	10	0.661 618	12 806	188	0	0.699 939	10 290	200	+3	0.303 575	4 463	87	+1
	11	0.648 812	12 991	185	+1	0.710 229	10 087	203	0	0.308 038	4 376	87	+4
	12	0.635 821	13 172	181	+1	0.720 316	9 882	205	−1	0.312 414	4 286	90	−3
	13	0.622 649	13 351	179	−4	0.730 198	9 674	208	−1	0.316 700	4 196	90	−1
	14	0.609 298	13 525	174	−1	0.739 872	9 464	210	0	0.320 896	4 104	92	−4
	15	+0.595 773	−13 697	−172	−4	+0.749 336	+ 9 251	−213	0	+0.325 000	+4 012	− 92	+2
	16	0.582 076	13 864	167	+2	0.758 587	9 035	216	−2	0.329 012	3 918	94	+1
	17	0.568 212	14 027	163	+4	0.767 622	8 817	218	+1	0.332 930	3 824	94	+4
	18	0.554 185	14 187	160	−1	0.776 439	8 596	221	0	0.336 754	3 727	97	−2
	19	0.539 998	14 343	156	−4	0.785 035	8 372	224	−2	0.340 481	3 631	96	+4
	20	0.525 655	14 495	152	−2	0.793 407	8 146	226	−1	0.344 112	3 532	99	−3
	21	+0.511 160	−14 641	−146	+4	+0.801 553	+ 7 917	−229	−3	+0.347 644	+3 433	− 99	−1
	22	0.496 519	14 785	144	−4	0.809 470	7 686	231	−1	0.351 077	3 333	100	−1
	23	0.481 734	14 923	138	−2	0.817 156	7 452	234	−2	0.354 410	3 231	102	−3
	24	0.466 811	15 058	135	−4	0.824 608	7 217	235	+3	0.357 641	3 130	101	+3
	25	0.451 753	15 187	129	+1	0.831 825	6 979	238	−1	0.360 771	3 026	104	−3
	26	0.436 566	15 312	125	+2	0.838 804	6 739	240	−2	0.363 797	2 923	103	+1
	27	+0.421 254	−15 432	−120	+3	+0.845 543	+ 6 497	−242	−3	+0.366 720	+2 817	−106	−4
	28	0.405 822	15 547	115	+3	0.852 040	6 254	243	−2	0.369 537	2 713	104	+3
	29	0.390 275	15 659	112	−4	0.858 294	6 008	246	−5	0.372 250	2 606	107	−4
	30	0.374 616	15 764	105	+5	0.864 302	5 761	247	−3	0.374 856	2 499	107	−4
	31	0.358 852	15 865	101	+4	0.870 063	5 513	248	+2	0.377 355	2 391	108	−2
Juni	1	0.342 987	15 961	96	+5	0.875 576	5 264	249	+4	0.379 746	2 284	107	+3
	2	+0.327 026	−16 052	− 91	+3	+0.880 840	+ 5 013	−251	+1	+0.382 030	+2 175	−109	−2
	3	0.310 974	16 139	87	0	0.885 853	4 762	251	+5	0.384 205	2 066	109	−3
	4	0.294 835	16 220	81	+1	0.890 615	4 509	253	+1	0.386 271	1 956	110	−5
	5	0.278 615	16 298	78	−5	0.895 124	4 256	253	+2	0.388 227	1 846	110	−1
	6	0.262 317	16 371	73	−3	0.899 380	4 002	254	+3	0.390 073	1 737	109	+4
	7	0.245 946	16 438	67	+2	0.903 382	3 748	254	+3	0.391 810	1 626	111	−4
	8	+0.229 508	−16 503	− 65	−3	+0.907 130	+ 3 492	−256	0	+0.393 436	+1 515	−111	−5
	9	0.213 005	16 562	59	+1	0.910 622	3 237	255	+3	0.394 951	1 403	112	−5
	10	0.196 443	16 618	56	0	0.913 859	2 980	257	−1	0.396 354	1 293	110	+3
	11	0.179 825	16 668	50	+4	0.916 839	2 722	258	−2	0.397 647	1 180	113	−4
	12	0.163 157	−16 716	48	−2	0.919 561	+ 2 465	257	+3	0.398 827	+1 068	112	+1
	13	+0.146 441		− 42	+3	+0.922 026		−260	−5	+0.399 895		−112	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0^h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Juni 13	+0.146 441	−16 758	− 42	+3	+0.922 026	+2 205	−260	−5	+0.399 895	+ 956	−112	+4
14	0.129 683	16 795	37	+5	0.924 231	1 945	260	−5	0.400 851	843	113	+2
15	0.112 888	16 829	34	−3	0.926 176	1 684	261	−4	0.401 694	730	113	+2
16	0.096 059	16 858	29	−4	0.927 860	1 423	261	−3	0.402 424	616	114	−1
17	0.079 201	16 882	24	−2	0.929 283	1 160	263	−5	0.403 040	503	113	+3
18	0.062 319	16 901	19	+1	0.930 443	897	263	−1	0.403 543	389	114	−2
19	+0.045 418	−16 914	− 13	+4	+0.931 340	+ 635	−262	+5	+0.403 932	+ 274	−115	−5
20	0.028 504	16 924	10	−3	0.931 975	371	264	+2	0.404 206	161	113	+1
21	+0.011 580	16 929	− 5	−3	0.932 346	+ 107	264	+3	0.404 367	+ 46	115	−4
22	−0.005 349	16 927	+ 2	+4	0.932 453	− 156	263	+5	0.404 413	− 69	115	−3
23	0.022 276	16 922	5	−3	0.932 297	421	265	−3	0.404 344	182	113	+3
24	0.039 198	16 911	11	0	0.931 876	685	264	−1	0.404 162	297	115	−4
25	−0.056 109	−16 895	+ 16	+1	+0.931 191	− 948	−263	+2	+0.403 865	− 412	−115	−4
26	0.073 004	16 874	21	0	0.930 243	1 212	264	−5	0.403 453	525	113	+3
27	0.089 878	16 848	26	0	0.929 031	1 475	263	−5	0.402 928	639	114	−1
28	0.106 726	16 817	31	+2	0.927 556	1 738	263	−4	0.402 289	753	114	−2
29	0.123 543	16 780	37	+5	0.925 818	1 999	261	+3	0.401 536	867	114	−2
30	0.140 323	16 739	41	+1	0.923 819	2 259	260	+5	0.400 669	979	112	+4
Juli 1	−0.157 062	−16 694	+ 45	−3	+0.921 560	−2 519	−260	0	+0.399 690	−1 092	−113	+1
2	0.173 756	16 642	52	+2	0.919 041	2 778	259	0	0.398 598	1 204	112	+3
3	0.190 398	16 588	54	−4	0.916 263	3 035	257	+3	0.397 394	1 316	112	+2
4	0.206 986	16 528	60	0	0.913 228	3 291	256	+4	0.396 078	1 427	111	+5
5	0.223 514	16 464	64	+1	0.909 937	3 546	255	+3	0.394 651	1 537	110	+5
6	0.239 978	16 395	69	+5	0.906 391	3 799	253	+3	0.393 114	1 648	111	−2
7	−0.256 373	−16 323	+ 72	0	+0.902 592	−4 052	−253	−2	+0.391 466	−1 757	−109	0
8	0.272 696	16 246	77	+2	0.898 540	4 304	252	−3	0.389 709	1 867	110	−5
9	0.288 942	16 166	80	−1	0.894 236	4 553	249	+3	0.387 842	1 975	108	−2
10	0.305 108	16 080	86	+5	0.889 683	4 803	250	−2	0.385 867	2 084	109	−5
11	0.321 188	15 991	89	+2	0.884 880	5 051	248	0	0.383 783	2 191	107	0
12	0.337 179	15 897	94	0	0.879 829	5 298	247	+2	0.381 592	2 299	108	−2
13	−0.353 076	−15 800	+ 97	−5	+0.874 531	−5 544	−246	+3	+0.379 293	−2 405	−106	+3
14	0.368 876	15 698	102	−2	0.868 987	5 788	244	+5	0.376 888	2 511	106	+2
15	0.384 574	15 590	108	+4	0.863 199	6 032	244	0	0.374 377	2 617	106	−1
16	0.400 164	15 479	111	0	0.857 167	6 274	242	+1	0.371 760	2 722	105	+1
17	0.415 643	15 363	116	+1	0.850 893	6 514	240	0	0.369 038	2 826	104	+3
18	0.431 006	15 243	120	−2	0.844 379	6 754	240	−5	0.366 212	2 929	103	+3
19	−0.446 249	−15 118	+125	+1	+0.837 625	−6 991	−237	−1	+0.363 283	−3 033	−104	−2
20	0.461 367	14 988	130	+4	0.830 634	7 226	235	−1	0.360 250	3 134	101	+4
21	0.476 355	14 854	134	+2	0.823 408	7 461	235	−4	0.357 116	3 235	101	+1
22	0.491 209	14 716	138	0	0.815 947	7 691	230	+4	0.353 881	3 336	101	−4
23	0.505 925	−14 572	144	+5	0.808 256	−7 922	231	−4	0.350 545	−3 436	100	−3
24	−0.520 497		+147	+1	+0.800 334		−226	+2	+0.347 109		− 97	+3

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit		Mittleres Äquinoktium 1950.0											
		X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941													
Juli	24	−0.520 497	−14 425	+147	+1	+0.800 334	− 8 148	−226	+2	+0.347 109	−3 533	−97	+3
	25	0.534 922	14 272	153	+4	0.792 186	8 374	226	−4	0.343 576	3 631	98	−4
	26	0.549 194	14 116	156	−3	0.783 812	8 596	222	+2	0.339 945	3 728	97	−5
	27	0.563 310	13 956	160	−4	0.775 216	8 815	219	+3	0.336 217	3 823	95	−1
	28	0.577 266	13 790	166	+1	0.766 401	9 033	218	−2	0.332 394	3 917	94	+3
	29	0.591 050	13 622	168	−4	0.757 368	9 246	213	+4	0.328 477	4 009	92	+5
	30	−0.604 678	−13 449	+173	−2	+0.748 122	− 9 457	−211	+3	+0.324 468	−4 101	−92	0
	31	0.618 127	13 273	176	−3	0.738 665	9 665	208	−1	0.320 367	4 192	91	−2
Aug.	1	0.631 400	13 093	180	0	0.729 000	9 871	206	−5	0.316 175	4 281	89	+1
	2	0.644 493	12 909	184	+2	0.719 129	10 073	202	0	0.311 894	4 368	87	+5
	3	0.657 402	12 723	186	−3	0.709 056	10 272	199	+3	0.307 526	4 455	87	0
	4	0.670 125	12 533	190	0	0.698 784	10 468	196	+3	0.303 071	4 540	85	+1
	5	−0.682 658	−12 340	+193	+3	+0.688 316	−10 662	−194	0	+0.298 531	−4 625	−85	−4
	6	0.694 998	12 143	197	+5	0.677 654	10 852	190	+1	0.293 906	4 707	82	+1
	7	0.707 141	11 943	200	+2	0.666 802	11 041	189	−4	0.289 199	4 789	82	−3
	8	0.719 084	11 741	202	−4	0.655 761	11 226	185	+1	0.284 410	4 870	81	−3
	9	0.730 825	11 535	206	−4	0.644 535	11 408	182	+4	0.279 540	4 948	78	+3
	10	0.742 360	11 326	209	−3	0.633 127	11 588	180	0	0.274 592	5 027	79	−3
	11	−0.753 686	−11 113	+213	+1	+0.621 539	−11 765	−177	+2	+0.269 565	−5 103	−76	+1
	12	0.764 799	10 896	217	+3	0.609 774	11 938	173	+4	0.264 462	5 179	76	−1
	13	0.775 695	10 678	218	−4	0.597 836	12 110	172	−2	0.259 283	5 252	73	+3
	14	0.786 373	10 454	224	+4	0.585 726	12 277	167	+2	0.254 031	5 325	73	−3
	15	0.796 827	10 228	226	0	0.573 449	12 442	165	+1	0.248 706	5 397	72	−4
	16	0.807 055	9 999	229	−4	0.561 007	12 602	160	+4	0.243 309	5 466	69	+1
	17	−0.817 054	− 9 767	+232	−4	+0.548 405	−12 761	−159	−3	+0.237 843	−5 534	−68	+1
	18	0.826 821	9 530	237	+3	0.535 644	12 915	154	+1	0.232 309	5 602	68	−4
	19	0.836 351	9 292	238	−3	0.522 729	13 065	150	+2	0.226 707	5 666	64	+4
	20	0.845 643	9 049	243	+3	0.509 664	13 213	148	−3	0.221 041	5 730	64	0
	21	0.854 692	8 804	245	0	0.496 451	13 356	143	0	0.215 311	5 792	62	−1
	22	0.863 496	8 556	248	0	0.483 095	13 495	139	+3	0.209 519	5 852	60	0
	23	−0.872 052	− 8 305	+251	+1	+0.469 600	−13 630	−135	+3	+0.203 667	−5 911	−59	−3
	24	0.880 357	8 050	255	+4	0.455 970	13 761	131	+1	0.197 756	5 968	57	−2
	25	0.888 407	7 795	255	−4	0.442 209	13 888	127	+1	0.191 788	6 023	55	+2
	26	0.896 202	7 536	259	+1	0.428 321	14 010	122	+2	0.185 765	6 075	52	+5
	27	0.903 738	7 274	262	+4	0.414 311	14 128	118	0	0.179 690	6 127	52	−2
	28	0.911 012	7 012	262	−4	0.400 183	14 242	114	−3	0.173 563	6 177	50	−3
	29	−0.918 024	− 6 748	+264	−4	+0.385 941	−14 352	−110	−3	+0.167 386	−6 224	−47	+2
	30	0.924 772	6 480	268	+3	0.371 589	14 457	105	+3	0.161 162	6 270	46	+2
	31	0.931 252	6 213	267	−4	0.357 132	14 557	100	+5	0.154 892	6 314	44	+1
Sept.	1	0.937 465	5 943	270	−1	0.342 575	14 655	98	−2	0.148 578	6 356	42	+1
	2	0.943 408	− 5 672	271	−1	0.327 920	−14 748	93	−1	0.142 222	−6 397	41	−1
	3	−0.949 080		+273	+2	+0.313 172		− 89	0	+0.135 825		−38	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Sept. 3	−0.949 080	−5 399	+273	+2	+0.313 172	−14 837	−89	0	+0.135 825	−6 435	−38	0
4	0.954 479	5 125	274	+3	0.298 335	14 922	85	+2	0.129 390	6 473	38	−4
5	0.959 604	4 849	276	+5	0.283 413	15 003	81	+1	0.122 917	6 508	35	+1
6	0.964 453	4 572	277	+5	0.268 410	15 080	77	−1	0.116 409	6 541	33	+3
7	0.969 025	4 293	279	+5	0.253 330	15 154	74	−5	0.109 868	6 573	32	+1
8	0.973 318	4 013	280	+3	0.238 176	15 223	69	−1	0.103 295	6 603	30	0
9	−0.977 331	−3 731	+282	+3	+0.222 953	−15 288	−65	−1	+0.096 692	−6 631	−28	−1
10	0.981 062	3 448	283	+3	0.207 665	15 349	61	−3	0.090 061	6 658	27	−2
11	0.984 510	3 163	285	+4	0.192 316	15 406	57	−4	0.083 403	6 682	24	+2
12	0.987 673	2 877	286	+1	0.176 910	15 459	53	−5	0.076 721	6 705	23	+1
13	0.990 550	2 590	287	−1	0.161 451	15 507	48	−2	0.070 016	6 725	20	+4
14	0.993 140	2 301	289	+1	0.145 944	15 551	44	0	0.063 291	6 745	20	−2
15	−0.995 441	−2 011	+290	−1	+0.130 393	−15 590	−39	+4	+0.056 546	−6 761	−16	+5
16	0.997 452	1 721	290	−4	0.114 803	15 625	35	+2	0.049 785	6 776	15	+2
17	0.999 173	1 428	293	+2	0.099 178	15 655	30	+2	0.043 009	6 790	14	−2
18	1.000 601	1 135	293	0	0.083 523	15 681	26	0	0.036 219	6 800	10	+3
19	1.001 736	842	293	−2	0.067 842	15 701	20	+3	0.029 419	6 809	9	+1
20	1.002 578	546	296	+4	0.052 141	15 718	17	−3	0.022 610	6 816	7	−1
21	−1.003 124	− 252	+294	−2	+0.036 423	−15 728	−10	+4	+0.015 794	−6 821	− 5	−1
22	1.003 376	+ 44	296	+4	0.020 695	15 733	5	+5	0.008 973	6 823	2	+2
23	1.003 332	340	296	+3	+0.004 962	15 735	− 2	−3	+0.002 150	6 824	− 1	0
24	1.002 992	635	295	0	−0.010 773	15 730	+ 5	+2	−0.004 674	6 822	+ 2	+4
25	1.002 357	931	296	+1	0.026 503	15 721	9	−2	0.011 496	6 818	4	+5
26	1.001 426	1 225	294	−5	0.042 224	15 707	14	−3	0.018 314	6 812	6	+4
27	−1.000 201	+1 519	+294	−4	−0.057 931	−15 689	+18	−3	−0.025 126	−6 804	+ 8	+2
28	0.998 682	1 813	294	0	0.073 620	15 665	24	+3	0.031 930	6 795	9	−1
29	0.996 869	2 106	293	+2	0.089 285	15 637	28	+2	0.038 725	6 782	13	+5
30	0.994 763	2 398	292	+2	0.104 922	15 605	32	+1	0.045 507	6 768	14	+2
Okt. 1	0.992 365	2 690	292	+5	0.120 527	15 568	37	0	0.052 275	6 753	15	−4
2	0.989 675	2 981	291	+4	0.136 095	15 528	40	−5	0.059 028	6 735	18	−3
3	−0.986 694	+3 271	+290	0	−0.151 623	−15 482	+46	0	−0.065 763	−6 716	+19	−3
4	0.983 423	3 560	289	−1	0.167 105	15 433	49	−1	0.072 479	6 694	22	+3
5	0.979 863	3 849	289	0	0.182 538	15 379	54	+2	0.079 173	6 670	24	+2
6	0.976 014	4 136	287	−3	0.197 917	15 320	59	+3	0.085 843	6 646	24	−4
7	0.971 878	4 424	288	+1	0.213 237	15 258	62	−3	0.092 489	6 618	28	+4
8	0.967 454	4 709	285	−5	0.228 495	15 192	66	−5	0.099 107	6 589	29	+1
9	−0.962 745	+4 994	+285	−2	−0.243 687	−15 120	+72	0	−0.105 696	−6 558	+31	+1
10	0.957 751	5 279	285	+4	0.258 807	15 045	75	−2	0.112 254	6 525	33	+1
11	0.952 472	5 562	283	+3	0.273 852	14 964	81	+2	0.118 779	6 490	35	0
12	0.946 910	5 844	282	+2	0.288 816	14 880	84	−2	0.125 269	6 453	37	−1
13	0.941 066	+6 125	281	+1	0.303 696	−14 791	89	−1	0.131 722	−6 415	38	−5
14	−0.934 941		+279	−2	−0.318 487		+94	+2	−0.138 137		+41	0

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0h Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			ΔX*)	Y			ΔY*)	Z			ΔZ*)
1941												
Okt. 14	−0.934 941	+ 6 404	+279	−2	−0.318 487	−14 697	+ 94	+2	−0.138 137	−6 374	+ 41	0
15	0.928 537	6 683	279	+1	0.333 184	14 599	98	−1	0.144 511	6 331	43	+1
16	0.921 854	6 959	276	−2	0.347 783	14 496	103	+1	0.150 842	6 286	45	+1
17	0.914 895	7 235	276	+1	0.362 279	14 388	108	+2	0.157 128	6 240	46	−3
18	0.907 660	7 508	273	−4	0.376 667	14 276	112	0	0.163 368	6 191	49	+1
19	0.900 152	7 779	271	−4	0.390 943	14 158	118	+2	0.169 559	6 140	51	+4
20	−0.892 373	+ 8 049	+270	−1	−0.405 101	−14 037	+121	−4	−0.175 699	−6 087	+ 53	+3
21	0.884 324	8 315	266	−4	0.419 138	13 910	127	−1	0.181 786	6 032	55	0
22	0.876 009	8 580	265	+2	0.433 048	13 778	132	+1	0.187 818	5 976	56	−3
23	0.867 429	8 842	262	+1	0.446 826	13 643	135	−3	0.193 794	5 917	59	+3
24	0.858 587	9 100	258	−5	0.460 469	13 502	141	−1	0.199 711	5 856	61	+5
25	0.849 487	9 356	256	−3	0.473 971	13 358	144	−5	0.205 567	5 793	63	+4
26	−0.840 131	+ 9 608	+252	−4	−0.487 329	−13 210	+148	−5	−0.211 360	−5 730	+ 63	−3
27	0.830 523	9 858	250	+1	0.500 539	13 057	153	0	0.217 090	5 663	67	+3
28	0.820 665	10 105	247	+2	0.513 596	12 901	156	−2	0.222 753	5 596	67	−1
29	0.810 560	10 348	243	−1	0.526 497	12 742	159	−3	0.228 349	5 527	69	0
30	0.800 212	10 589	241	−1	0.539 239	12 577	165	+4	0.233 876	5 455	72	+3
31	0.789 623	10 826	237	−5	0.551 816	12 411	166	−2	0.239 331	5 384	71	−4
Nov. 1	−0.778 797	+11 060	+234	−5	−0.564 227	−12 240	+171	+3	−0.244 715	−5 309	+ 75	+4
2	0.767 737	11 291	231	−3	0.576 467	12 065	175	+4	0.250 024	5 233	76	+3
3	0.756 446	11 520	229	+1	0.588 532	11 888	177	0	0.255 257	5 156	77	−2
4	0.744 926	11 744	224	−3	0.600 420	11 706	182	+2	0.260 413	5 078	78	−5
5	0.733 182	11 966	222	+1	0.612 126	11 522	184	−3	0.265 491	4 997	81	−1
6	0.721 216	12 185	219	+4	0.623 648	11 333	189	0	0.270 488	4 916	81	−3
7	−0.709 031	+12 401	+216	+3	−0.634 981	−11 142	+191	−3	−0.275 404	−4 832	+ 84	+2
8	0.696 630	12 612	211	−4	0.646 123	10 946	196	+1	0.280 236	4 747	85	0
9	0.684 018	12 821	209	−1	0.657 069	10 748	198	−1	0.284 983	4 661	86	−3
10	0.671 197	13 026	205	−3	0.667 817	10 545	203	+4	0.289 644	4 573	88	−3
11	0.658 171	13 227	201	−3	0.678 362	10 339	206	+2	0.294 217	4 484	89	−3
12	0.644 944	13 426	199	+4	0.688 701	10 131	208	−4	0.298 701	4 393	91	−1
13	−0.631 518	+13 620	+194	+1	−0.698 832	− 9 918	+213	+1	−0.303 094	−4 301	+ 92	−1
14	0.617 898	13 811	191	+1	0.708 750	9 701	217	+3	0.307 395	4 207	94	+2
15	0.604 087	13 997	186	−3	0.718 451	9 482	219	−2	0.311 602	4 111	96	+2
16	0.590 090	14 179	182	−2	0.727 933	9 259	223	0	0.315 713	4 015	96	−5
17	0.575 911	14 358	179	+3	0.737 192	9 032	227	+3	0.319 728	3 917	98	−4
18	0.561 553	14 531	173	−4	0.746 224	8 802	230	0	0.323 645	3 817	100	−2
19	−0.547 022	+14 699	+168	−5	−0.755 026	− 8 570	+232	−2	−0.327 462	−3 717	+100	−4
20	0.532 323	14 864	165	+3	0.763 596	8 333	237	+4	0.331 179	3 614	103	+3
21	0.517 459	15 023	159	0	0.771 929	8 095	238	+1	0.334 793	3 511	103	+1
22	0.502 436	15 176	153	−4	0.780 024	7 853	242	+5	0.338 304	3 406	105	+3
23	0.487 260	+15 326	150	+3	0.787 877	− 7 609	244	+3	0.341 710	−3 301	105	0
24	−0.471 934		+144	+1	−0.795 486		+245	−3	−0.345 011		+107	+4

*) ΔX, ΔY, ΔZ sind in Einheiten der 7. Dezimale gegeben.

0ʰ Welt-Zeit	Mittleres Äquinoktium 1950.0											
	X			*ΔX**)	*Y*			*ΔY**)	*Z*			*ΔZ**)
1941												
Nov. 24	−0.471 934	+15 470	+144	+1	−0.795 486	−7 364	+245	−3	−0.345 011	−3 194	+107	+4
25	0.456 464	15 609	139	−2	0.802 850	7 115	249	+1	0.348 205	3 086	108	+2
26	0.440 855	15 743	134	−4	0.809 965	6 866	249	−4	0.351 291	2 979	107	−4
27	0.425 112	15 872	129	−2	0.816 831	6 614	252	0	0.354 270	2 869	110	+3
28	0.409 240	15 998	126	+4	0.823 445	6 360	254	+5	0.357 139	2 759	110	+3
29	0.393 242	16 117	119	−4	0.829 805	6 104	256	+5	0.359 898	2 648	111	+3
30	−0.377 125	+16 232	+115	−5	−0.835 909	−5 847	+257	+2	−0.362 546	−2 536	+112	+4
Dez. 1	0.360 893	16 342	110	−4	0.841 756	5 588	259	+3	0.365 082	2 424	112	+1
2	0.344 551	16 448	106	−1	0.847 344	5 327	261	+4	0.367 506	2 311	113	+2
3	0.328 103	16 548	100	−4	0.852 671	5 065	262	0	0.369 817	2 196	115	+4
4	0.311 555	16 644	96	+1	0.857 736	4 801	264	0	0.372 013	2 083	113	−4
5	0.294 911	16 736	92	+4	0.862 537	4 536	265	−2	0.374 096	1 967	116	+3
6	−0.278 175	+16 822	+ 86	−2	−0.867 073	−4 269	+267	0	−0.376 063	−1 851	+116	+3
7	0.261 353	16 903	81	−4	0.871 342	4 000	269	+3	0.377 914	1 734	117	+2
8	0.244 450	16 979	76	−4	0.875 342	3 731	269	−3	0.379 648	1 618	116	−3
9	0.227 471	17 051	72	+3	0.879 073	3 459	272	0	0.381 266	1 500	118	+1
10	0.210 420	17 118	67	+4	0.882 532	3 187	272	−3	0.382 766	1 381	119	+4
11	0.193 302	17 179	61	0	0.885 719	2 913	274	0	0.384 147	1 262	119	+1
12	−0.176 123	+17 235	+ 56	+2	−0.888 632	−2 637	+276	+2	−0.385 409	−1 144	+118	−4
13	0.158 888	17 287	52	+5	0.891 269	2 361	276	−1	0.386 553	1 023	121	+4
14	0.141 601	17 332	45	0	0.893 630	2 082	279	+2	0.387 576	902	121	+2
15	0.124 269	17 372	40	+1	0.895 712	1 804	278	−4	0.388 478	782	120	−4
16	0.106 897	17 407	35	+2	0.897 516	1 524	280	−2	0.389 260	661	121	−3
17	0.089 490	17 435	28	−4	0.899 040	1 243	281	0	0.389 921	539	122	+1
18	−0.072 055	+17 457	+ 22	−3	−0.900 283	− 961	+282	0	−0.390 460	− 417	+122	+1
19	0.054 598	17 475	18	+4	0.901 244	680	281	−4	0.390 877	295	122	+1
20	0.037 123	17 486	11	0	0.901 924	398	282	−2	0.391 172	173	122	+1
21	0.019 637	17 490	+ 4	−4	0.902 322	− 116	282	0	0.391 345	− 51	122	+2
22	−0.002 147	17 490	0	+3	0.902 438	+ 166	282	0	0.391 396	+ 72	123	+3
23	+0.015 343	17 484	− 6	+3	0.902 272	447	281	−4	0.391 324	193	121	−3
24	+0.032 827	+17 472	− 12	+1	−0.901 825	+ 728	+281	−3	−0.391 131	+ 315	+122	−1
25	0.050 299	17 455	17	+1	0.901 097	1 008	280	−4	0.390 816	437	122	0
26	0.067 754	17 432	23	−1	0.900 089	1 288	280	−2	0.390 379	558	121	−2
27	0.085 186	17 404	28	0	0.898 801	1 567	279	−2	0.389 821	679	121	−2
28	0.102 590	17 371	33	+2	0.897 234	1 845	278	−2	0.389 142	800	121	0
29	0.119 961	17 333	38	+3	0.895 389	2 123	278	+2	0.388 342	921	121	+1
30	+0.137 294	+17 289	− 44	0	−0.893 266	+2 400	+277	+4	−0.387 421	+1 040	+119	−3
31	0.154 583	+17 241	48	+2	0.890 866	+2 676	276	+1	0.386 381	+1 161	121	+4
32	+0.171 824		− 54	−3	−0.888 190		+275	0	−0.385 220		+119	+1

*) *ΔX*, *ΔY*, *ΔZ* sind in Einheiten der 7. Dezimale gegeben.

Mittleres Äquinoktium 1950.0

MERKUR 1941

0^h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	0^h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
1941		°	°	°	1941		°	°	°
Jan. 1	9.6687	261.20	+0.20	−3.87	Juli 5	9.6538	286.88	+0.19	−6.02
6	9.6632	275.13	+0.21	−5.17	10	9.6363	302.31	+0.11	−6.75
11	9.6511	289.68	+0.18	−6.19	15	9.6121	319.33	−0.01	−7.00
16	9.6323	305.36	+0.09	−6.84	20	9.5819	338.63	−0.14	−6.55
21	9.6069	322.76	−0.04	−6.98	25	9.5478	0.96	−0.21	−5.12
26	9.5757	342.57	−0.16	−6.36	30	9.5150	26.93	−0.14	−2.50
31	9.5414	5.55	−0.21	−4.72	Aug. 4	9.4924	56.41	+0.06	+1.06
Febr. 5	9.5097	32.22	−0.11	−1.88	9	9.4893	87.83	+0.21	+4.52
10	9.4902	62.23	+0.10	+1.76	14	9.5072	118.38	+0.13	+6.61
15	9.4912	93.71	+0.21	+5.05	19	9.5382	145.71	−0.06	+6.94
20	9.5123	123.79	+0.10	+6.80	24	9.5726	169.11	−0.19	+5.99
25	9.5446	150.39	−0.09	+6.84	29	9.6042	189.08	−0.21	+4.39
März 2	9.5789	173.09	−0.20	+5.72	Sept. 3	9.6302	206.48	−0.15	+2.55
7	9.6095	192.52	−0.20	+4.05	8	9.6496	222.10	−0.04	+0.69
12	9.6343	209.52	−0.13	+2.20	13	9.6623	236.59	+0.07	−1.08
17	9.6525	224.88	−0.02	+0.35	18	9.6684	250.48	+0.15	−2.72
22	9.6639	239.22	+0.08	−1.40	23	9.6680	264.22	+0.21	−4.18
27	9.6688	253.05	+0.17	−3.01	28	9.6611	278.24	+0.21	−5.42
April 1	9.6672	266.81	+0.21	−4.43	Okt. 3	9.6475	293.00	+0.16	−6.37
6	9.6590	280.94	+0.21	−5.62	8	9.6273	309.00	+0.06	−6.92
11	9.6442	295.89	+0.15	−6.51	13	9.6005	326.85	−0.07	−6.92
16	9.6227	312.18	+0.04	−6.97	18	9.5684	347.29	−0.18	−6.10
21	9.5948	330.47	−0.09	−6.83	23	9.5339	11.05	−0.21	−4.20
26	9.5619	351.48	−0.20	−5.83	28	9.5040	38.53	−0.07	−1.13
Mai 1	9.5277	15.93	−0.19	−3.71	Nov. 2	9.4885	69.08	+0.15	+2.56
6	9.4997	44.08	−0.03	−0.45	7	9.4943	100.50	+0.21	+5.59
11	9.4879	75.00	+0.17	+3.22	12	9.5188	129.94	+0.06	+6.94
16	9.4977	106.26	+0.19	+5.98	17	9.5522	155.67	−0.13	+6.67
21	9.5247	135.08	+0.02	+7.00	22	9.5860	177.59	−0.21	+5.39
26	9.5587	160.06	−0.15	+6.48	27	9.6155	196.41	−0.19	+3.66
31	9.5919	181.33	−0.21	+5.09	Dez. 2	9.6389	212.99	−0.11	+1.79
Juni 5	9.6204	199.67	−0.18	+3.31	7	9.6555	228.08	0.00	−0.04
10	9.6425	215.92	−0.09	+1.44	12	9.6656	242.27	+0.10	−1.77
15	9.6579	230.80	+0.02	−0.38	17	9.6690	256.05	+0.18	−3.33
20	9.6667	244.88	+0.12	−2.07	22	9.6660	269.85	+0.21	−4.71
25	9.6690	258.63	+0.19	−3.61	27	9.6564	284.12	+0.20	−5.84
30	9.6647	272.48	+0.21	−4.94	32	9.6401	299.31	+0.13	−6.65
Juli 5	9.6538	286.88	+0.19	−6.02					

$\Omega = 47\overset{\circ}{.}739 \qquad i = 7\overset{\circ}{.}004 \qquad m = \frac{1}{6\,000\,000}$

Mittleres Äquinoktium 1950.0

0ʰ Welt-Zeit		Julian. Zeit	log *r*	Helioz. Länge	Red. auf d. Bahn	Heliozentr. Breite	log *R*	Länge
			VENUS 1941				ERDE 1941	
1941		d		°	in 0.001 °	°		°
Jan.	−4	2429 990.5	9.85869	208.971	−50	+2.495	9.99272	95.231
	+6	2430 000.5	9.85951	225.004	−45	+1.762	9.99269	105.423
	16	010.5	9.86031	240.964	−26	+0.896	9.99288	115.612
	26	020.5	9.86104	256.859	+ 1	−0.036	9.99328	125.786
Febr.	5	030.5	9.86164	272.705	+27	−0.962	9.99389	135.937
	15	2430 040.5	9.86205	288.523	+45	−1.814	9.99469	146.055
	25	050.5	9.86226	304.331	+50	−2.527	9.99564	156.132
März	7	060.5	9.86225	320.147	+40	−3.049	9.99672	166.162
	17	070.5	9.86201	335.984	+18	−3.340	9.99789	176.140
	27	080.5	9.86156	351.851	−10	−3.378	9.99912	186.063
April	6	2430 090.5	9.86095	7.754	−34	−3.159	0.00037	195.929
	16	100.5	9.86021	23.698	−49	−2.696	0.00160	205.739
	26	110.5	9.85940	39.684	−48	−2.024	0.00278	215.494
Mai	6	120.5	9.85858	55.716	−33	−1.192	0.00387	225.199
	16	130.5	9.85781	71.796	− 8	−0.264	0.00484	234.858
	26	2430 140.5	9.85717	87.927	+20	+0.687	0.00567	244.476
Juni	5	150.5	9.85669	104.106	+42	+1.587	0.00634	254.061
	15	160.5	9.85643	120.326	+50	+2.362	0.00682	263.621
	25	170.5	9.85638	136.573	+43	+2.950	0.00711	273.164
Juli	5	180.5	9.85658	152.828	+23	+3.302	0.00720	282.698
	15	2430 190.5	9.85699	169.067	− 5	+3.390	0.00709	292.233
	25	200.5	9.85759	185.267	−31	+3.210	0.00677	301.778
Aug.	4	210.5	9.85831	201.408	−47	+2.776	0.00626	311.340
	14	220.5	9.85912	217.477	−49	+2.127	0.00557	320.929
	24	230.5	9.85994	233.470	−36	+1.316	0.00472	330.552
Sept.	3	2430 240.5	9.86072	249.393	−12	+0.406	0.00373	340.217
	13	250.5	9.86137	265.261	+16	−0.532	0.00263	349.928
	23	260.5	9.86188	281.090	+38	−1.427	0.00144	359.690
Okt.	3	270.5	9.86219	296.900	+50	−2.212	0.00020	9.508
	13	280.5	9.86228	312.711	+46	−2.830	9.99895	19.382
	23	2430 290.5	9.86214	328.537	+29	−3.234	9.99773	29.312
Nov.	2	300.5	9.86179	344.390	+ 3	−3.392	9.99657	39.298
	12	310.5	9.86125	0.276	−24	−3.293	9.99550	49.335
	22	320.5	9.86057	16.200	−44	−2.942	9.99456	59.418
Dez.	2	330.5	9.85978	32.166	−50	−2.363	9.99379	69.541
	12	2430 340.5	9.85895	48.177	−42	−1.599	9.99321	79.696
	22	350.5	9.85816	64.235	−20	−0.708	9.99284	89.874
	32	2430 360.5	9.85745	80.342	+ 7	+0.242	9.99268	100.063

Venus: $\Omega = 76\overset{\circ}{.}230$ $i = 3\overset{\circ}{.}394$

$m = \frac{1}{408\,000}$

Erde: $m = \frac{1}{329\,390}$

Mittleres Äquinoktium 1950.0

0h Welt-Zeit	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite	log r	Helioz. Länge	Red. a. d. Bahn	Helioz. Breite
	MARS 1941				JUPITER 1941			
1941		°	° in 0.001	°		°	° in 0.0001	°
Jan. —4	0.20282	210.346	— 9	+0.598	0.697455	45.6125	—70	—1.0623
+6	0.19981	215.137	7	0.450	0.697625	46.5173	71	1.0502
16	0.19662	219.997	5	0.296	0.697798	47.4213	72	1.0378
26	0.19328	224.930	— 2	+0.138	0.697975	48.3246	72	1.0251
Febr. 5	0.18980	229.941	0	—0.024	0.698156	49.2271	73	1.0122
15	0.18622	235.035	+ 3	—0.188	0.698341	50.1289	—73	—0.9991
25	0.18254	240.214	6	0.354	0.698531	51.0299	74	0.9857
März 7	0.17880	245.483	8	0.519	0.698725	51.9301	74	0.9721
17	0.17504	250.844	10	0.683	0.698922	52.8294	74	0.9582
27	0.17127	256.299	12	0.843	0.699123	53.7280	74	0.9442
April 6	0.16755	261.850	+14	—0.999	0.699328	54.6256	—74	—0.9299
16	0.16390	267.496	15	1.147	0.699537	55.5224	74	0.9154
26	0.16038	273.237	15	1.287	0.699750	56.4184	74	0.9007
Mai 6	0.15701	279.070	15	1.415	0.699967	57.3134	74	0.8858
16	0.15385	284.993	14	1.531	0.700187	58.2075	74	0.8707
26	0.15093	291.000	+12	—1.631	0.700410	59.1007	—74	—0.8553
Juni 5	0.14829	297.084	10	1.715	0.700637	59.9930	73	0.8398
15	0.14598	303.239	8	1.779	0.700867	60.8843	73	0.8241
25	0.14403	309.455	5	1.824	0.701101	61.7747	72	0.8083
Juli 5	0.14247	315.722	+ 2	1.847	0.701338	62.6641	72	0.7922
15	0.14133	322.027	— 1	—1.849	0.701578	63.5525	—71	—0.7760
25	0.14063	328.360	5	1.827	0.701821	64.4399	70	0.7596
Aug. 4	0.14038	334.706	8	1.783	0.702067	65.3263	70	0.7431
14	0.14058	341.053	10	1.718	0.702317	66.2117	69	0.7264
24	0.14123	347.386	12	1.631	0.702569	67.0960	68	0.7095
Sept. 3	0.14232	353.694	—14	—1.526	0.702824	67.9793	—67	—0.6925
13	0.14383	359.964	15	1.402	0.703082	68.8616	66	0.6753
23	0.14573	6.183	15	1.263	0.703343	69.7428	65	0.6580
Okt. 3	0.14800	12.343	14	1.110	0.703606	70.6229	64	0.6406
13	0.15060	18.433	13	0.947	0.703872	71.5019	62	0.6230
23	0.15349	24.446	—11	—0.775	0.704141	72.3799	—61	—0.6053
Nov. 2	0.15662	30.375	9	0.597	0.704412	73.2567	60	0.5876
12	0.15996	36.217	7	0.416	0.704685	74.1325	58	0.5696
22	0.16347	41.966	4	0.233	0.704961	75.0071	57	0.5516
Dez. 2	0.16710	47.622	— 1	—0.051	0.705238	75.8807	55	0.5335
12	0.17082	53.183	+ 2	+0.129	0.705518	76.7531	—54	—0.5152
22	0.17458	58.649	5	0.304	0.705800	77.6243	52	0.4969
32	0.17834	64.021	+ 7	+0.474	0.706083	78.4945	—51	—0.4785

Mars: $\Omega = 49.172°$ $i = 1.850°$ $m = \frac{1}{3093500}$

Jupiter: $\Omega = 99.9528°$ $i = 1.3059°$ $m = \frac{1}{1047.35}$

Mittleres Äquinoktium 1950.0

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
SATURN 1941							
			d		°	in 0.°0001	°
1940	Nov.	27	2429 960.5	0.963938	42.2592	—167	—2.3515
1941	Jan.	6	2430 000.5	0.963508	43.7006	177	2.3304
	Febr.	15	040.5	0.963087	45.1448	187	2.3077
	März	27	080.5	0.962674	46.5917	—197	—2.2836
	Mai	6	120.5	0.962269	48.0412	206	2.2579
	Juni	15	160.5	0.961873	49.4935	215	2.2308
	Juli	25	200.5	0.961486	50.9482	—223	—2.2022
	Sept.	3	240.5	0.961108	52.4056	230	2.1721
	Okt.	13	280.5	0.960741	53.8653	237	2.1405
	Nov.	22	320.5	0.960384	55.3275	244	2.1075
1942	Jan.	1	2430 360.5	0.960038	56.7920	—249	—2.0731

$\Omega = 113.°2251 \qquad i = 2.°4903 \qquad m = \frac{1}{3\,501.6}$

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
URANUS 1941							
			d		°	in 0.°001	°
1940	Nov.	27	2429 960.5	1.29132	54.371	— 2	—0.258
1941	Jan.	6	2430 000.5	1.29117	54.824	2	0.252
	Febr.	15	040.5	1.29102	55.277	2	0.246
	März	27	080.5	1.29087	55.730	— 2	—0.240
	Mai	6	120.5	1.29072	56.184	2	0.234
	Juni	15	160.5	1.29057	56.638	1	0.228
	Juli	25	200.5	1.29042	57.092	— 1	—0.223
	Sept.	3	240.5	1.29026	57.546	1	0.217
	Okt.	13	280.5	1.29011	58.001	1	0.211
	Nov.	22	320.5	1.28996	58.457	1	0.205
1942	Jan.	1	2430 360.5	1.28980	58.912	— 1	—0.199

$\Omega = 73.°745 \qquad i = 0.°773 \qquad m = \frac{1}{22\,869}$

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
NEPTUN 1941							
			d		°	in 0.°001	°
1940	Nov.	27	2429 960.5	1.48049	175.796	+ 14	+1.246
1941	Jan.	6	2430 000.5	1.48051	176.032	14	1.251
	Febr.	15	040.5	1.48052	176.269	14	1.256
	März	27	080.5	1.48054	176.505	+ 14	+1.261
	Mai	6	120.5	1.48055	176.741	14	1.266
	Juni	15	160.5	1.48057	176.977	14	1.271
	Juli	25	200.5	1.48058	177.213	+ 14	+1.276
	Sept.	3	240.5	1.48060	177.450	14	1.282
	Okt.	13	280.5	1.48061	177.686	14	1.287
	Nov.	22	320.5	1.48063	177.922	14	1.292
1942	Jan.	1	2430 360.5	1.48064	178.158	+ 14	+1.297

$\Omega = 131.°230 \qquad i = 1.°775 \qquad m = \frac{1}{19\,314}$

0^h Welt-Zeit			Julian. Zeit	log r	Heliozentrische Länge	Red. auf die Bahn	Heliozentrische Breite
PLUTO 1941							
			d		°	in 0.°001	°
1940	Nov.	27	2429 960.5	1.58722	123.094	+602	+4.110
1941	Febr.	15	2430 040.5	1.58661	123.404	615	4.202
	Mai	6	120.5	1.58599	123.714	627	4.294
	Juli	25	200.5	1.58537	124.026	640	4.387
	Okt.	13	280.5	1.58475	124.338	653	4.479
1942	Jan.	1	2430 360.5	1.58412	124.652	+665	+4.572

$\Omega = 109.°633 \qquad i = 17.°144 \qquad m \approx \frac{1}{3\,300\,000}$

Mittlere und Scheinbare Sternörter 1941

Reduktionsgrößen

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
905	[2 Ceti]	4.62	A 0	0 0 43.093	+3.0734	+ 16	−17 39 51.66	+20.041	− 2
1	α Androm.	2.15	A 0 p	0 5 19.933	+3.1006	+ 103	+28 45 53.21	+19.879	− 159
2	β Cassiopeiae	2.42	F 5	0 6 0.913	+3.1987	+ 674	+58 49 28.01	+19.858	− 178
3	ε Phoenicis	3.94	K 0	0 6 25.372	+3.0468	+ 126	−46 4 22.07	+19.865	− 170
4	[22 Androm.]	5.08	F 0	0 7 14.671	+3.1170	+ 3	+45 44 38.53	+20.036	+ 3
5	[κ² Sculptoris]	5.56	K 0	0 8 34.808	+3.0471	+ 8	−28 7 41.61	+20.054	+ 25
6	[ϑ Sculptoris]	5.19	F 5	0 8 44.206	+3.0496	+ 129	−35 27 47.35	+20.165	+ 136
7	γ Pegasi	2.87	B 2	0 10 11.643	+3.0890	+ 1	+14 51 20.43	+20.017	− 6
8	†[Br 6 Ceph *m*]	6.23	B 9	0 12 50.937	+3.3932	+ 42	+76 37 23.25	+20.017	+ 5
9	ι Ceti	3.75	K 0	0 16 25.276	+3.0564	− 12	− 9 9 2.88	+19.965	− 27
10	ζ Tucanae	4.34	F 8	0 17 0.614	+3.1297	+2715	−65 13 16.82	+21.161	+1173
11	β Hydri	2.90	G 0	0 22 40.999	+3.1646	+6918	−77 35 10.88	+20.273	+ 329
12	α Phoenicis	2.44	K 0	0 23 22.343	+2.9668	+ 190	−42 37 34.10	+19.555	− 384
13	12 Ceti	6.04	K 5	0 27 1.607	+3.0620	+ 6	− 4 16 58.96	+19.901	− 3
14	[49 G. Ceti]	5.23	A 3	0 27 25.747	+2.9998	− 19	−24 6 49.71	+19.921	+ 22
15	[λ¹ Phoenicis]	4.88	A 2	0 28 34.532	+2.8955	+ 145	−49 7 46.29	+19.918	+ 30
16	[κ Cassiopeiae]	4.24	B 0	0 29 37.635	+3.4055	− 5	+62 36 23.35	+19.879	+ 3
17	ζ Cassiopeiae	3.72	B 3	0 33 40.236	+3.3401	+ 17	+53 34 21.04	+19.821	− 6
18	π Androm.	4.44	B 3	0 33 43.348	+3.2035	+ 12	+33 23 41.37	+19.826	0
19	[ε Androm.]	4.52	G 5	0 35 25.880	+3.1696	− 176	+28 59 30.28	+19.557	− 247
20	δ Androm.	3.49	K 2	0 36 9.976	+3.2075	+ 104	+30 32 18.22	+19.706	− 88
21	α Cassiopeiae	2.47	K 0	0 37 8.660	+3.4016	+ 60	+56 12 50.90	+19.752	− 28
22	β Ceti	2.24	K 0	0 40 37.715	+3.0116	+ 165	−18 18 36.48	+19.768	+ 40
23	[η Phoenicis]	4.53	A 0	0 40 42.568	+2.6986	+ 4	−57 47 10.63	+19.749	+ 21
26	[λ² Sculptoris]	5.97	K 0	0 41 21.097	+2.9007	+ 201	−38 44 46.94	+19.844	+ 127
25	ο Cassiopeiae	4.70	B 2	0 41 25.562	+3.3415	+ 17	+47 57 42.61	+19.713	− 3
24	21 Cassiopeiae	5.59	A 2	0 41 42.772	+3.9509	− 52	+74 39 57.52	+19.692	− 20
27	ζ Androm.	4.30	K 0	0 44 12.342	+3.1795	− 75	+23 56 47.69	+19.595	− 76
28	[δ Piscium]	4.55	K 5	0 45 37.096	+3.1124	+ 55	+ 7 15 51.56	+19.602	− 45
31	[λ Hydri]	4.96	K 5	0 46 33.002	+2.0851	+ 355	−75 14 39.76	+19.607	− 24
29	[Br 82 Cass]	5.45	F 2 + A 2	0 47 7.520	+3.6351	+ 39	+63 55 36.41	+19.614	− 6
30	[φ² Ceti]	5.24	F 5	0 47 10.241	+3.0045	− 157	−10 57 42.03	+19.400	− 220
34	[λ² Tucanae]	5.34	K 0	0 52 48.467	+2.2435	+ 20	−69 50 45.05	+19.477	− 36
32	γ Cassiopeiae	2.25	B 0 p	0 53 7.722	+3.6167	+ 28	+60 23 51.86	+19.504	− 2
33	μ Androm.	3.94	A 2	0 53 28.186	+3.3289	+ 127	+38 10 47.22	+19.537	+ 37
35	α Sculptoris	4.39	B 5	0 55 45.854	+2.8908	+ 12	−29 40 33.34	+19.460	+ 7
36	ε Piscium	4.45	K 0	0 59 52.673	+3.1136	− 54	+ 7 34 22.60	+19.392	+ 30
37	[26 Ceti]	6.07	F 0	1 0 46.673	+3.0874	+ 78	+ 1 3 3.71	+19.306	− 36
38	†β Phoenicis *m*	3.35	K 0	1 3 27.249	+2.6779	− 29	−47 2 3.08	+19.288	+ 9
39	[ι Tucanae]	5.32	K 0	1 4 58.725	+2.3781	+ 108	−62 5 23.99	+19.244	+ 2

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
40	[η Ceti]	3.60	K o	1 5 37.263	+3.0179	+ 147	−10 29 40.17	+19.098	−128
42	β Androm.	2.37	M o	1 6 25.229	+3.3583	+ 146	+35 18 29.82	+19.095	−112
41	[44 H. Cephei]	5.68	A o	1 7 5.702	+5.1607	+ 325	+79 21 38.53	+19.191	+ 2
43	[τ Piscium]	4.70	K o	1 8 24.225	+3.3034	+ 53	+29 46 37.01	+19.125	− 32
44	[102 G. Sculpt.]	5.91	A 5	1 10 2.431	+2.7639	+ 69	−38 10 7.24	+19.089	− 24
45	υ Piscium	4.67	A 2	1 16 13.016	+3.2967	+ 16	+26 57 16.27	+18.935	− 9
47	ϑ Ceti	3.83	K o	1 21 4.378	+2.9986	− 54	− 8 29 14.27	+18.586	−216
46	[ψ Cassiopeiae]	4.96	K o	1 21 44.080	+4.2308	+ 126	+67 49 22.36	+18.811	+ 30
48	δ Cassiopeiae	2.80	A 5	1 21 56.169	+3.9207	+ 396	+59 55 45.83	+18.729	− 46
49	[γ Phoenicis]	3.40	K 5	1 25 48.308	+2.6057	− 16	−43 37 11.64	+18.456	−198
50	η Piscium	3.72	G 5	1 28 19.299	+3.2100	+ 18	+15 2 32.19	+18.569	− 3
53	[14 G. Hydri]	6.06	G 5	1 33 14.359	+0.3947	− 74	−78 48 14.59	+18.289	−118
51	40 Cassiopeiae	5.50	K o	1 33 45.311	+4.7813	− 36	+72 44 25.14	+18.378	− 10
52	51 Androm.	3.77	K o	1 34 21.489	+3.6808	+ 66	+48 19 48.43	+18.259	−109
54	α Eridani	0.60	B 5	1 35 31.174	+2.2355	+ 127	−57 32 9.32	+18.304	− 23
55	43 Cassiopeiae	5.54	A o p	1 37 56.393	+4.4358	+ 86	+67 44 44.28	+18.236	− 3
56	[ν Piscium]	4.68	K o	1 38 21.452	+3.1220	− 17	+ 5 11 23.10	+18.231	+ 7
58	[129 G. Sculpt.]	5.64	A o	1 39 26.932	+2.6438	− 39	−37 7 45.78	+18.166	− 19
57	φ Persei	4.19	B o p	1 39 56.904	+3.7580	+ 26	+50 23 32.60	+18.155	− 11
59	τ Ceti	3.65	K o	1 41 19.577	+2.7873	−1192	−16 14 51.17	+18.974	+858
60	ο Piscium	4.50	K o	1 42 16.456	+3.1679	+ 48	+ 8 51 41.60	+18.133	+ 54
61	ε Sculptoris	5.39	F o	1 42 52.961	+2.8101	+ 117	−25 20 48.40	+18.005	− 52
62	ζ Ceti	3.92	K o	1 48 32.793	+2.9612	+ 25	−10 37 32.86	+17.803	− 33
64	α Trianguli	3.58	F 5	1 49 42.657	+3.4193	+ 8	+29 17 32.14	+17.558	−231
63	ε Cassiopeiae	3.44	B 3	1 50 7.508	+4.3100	+ 40	+63 22 50.15	+17.755	− 17
65	ξ Piscium	4.84	K o	1 50 29.882	+3.1059	+ 14	+ 2 53 49.45	+17.785	+ 28
67	ψ Phoenicis	4.41	M 3	1 51 16.929	+2.4056	− 82	−46 35 27.55	+17.647	− 79
66	β Arietis	2.72	A 5	1 51 22.509	+3.3136	+ 68	+20 31 13.58	+17.614	−108
69	[η² Hydri]	4.72	K o	1 53 26.230	+1.5200	+ 128	−67 56 13.37	+17.724	+ 87
68	χ Eridani	3.73	G 5	1 53 39.805	+2.3355	+ 734	−51 54 6.94	+17.929	+301
72	α Hydri	3.02	F o	1 56 54.667	+1.8909	+ 375	−61 51 22.79	+17.531	+ 40
71	υ Ceti	4.18	M o	1 57 13.463	+2.8266	+ 93	−21 21 46.58	+17.461	− 16
70	50 Cassiopeiae	4.06	A 2	1 58 21.022	+5.1110	− 104	+72 8 13.86	+17.456	+ 28
73	γ Androm. *pr*	2.28 5.08	K o A o	2 0 16.041	+3.6815	+ 44	+42 2 51.48	+17.298	− 47
74	α Arietis	2.23	K 2	2 3 50.477	+3.3814	+ 138	+23 11 3.74	+17.043	−144
75	β Trianguli	3.08	A 5	2 6 1.446	+3.5689	+ 119	+34 42 33.15	+17.049	− 38
77	[Br 299 Andr]	5.40	K o	2 9 40.006	+3.9880	+ 366	+50 47 34.45	+16.753	−165
76	55 Cassiopeiae	6.15	F 5 + A 2	2 9 49.337	+4.7011	− 23	+66 14 57.27	+16.911	0
78	μ Fornacis	5.24	A o	2 10 18.588	+2.6422	+ 14	−30 59 59.26	+16.901	+ 12
79	[γ Trianguli]	4.07	A o	2 13 47.900	+3.5656	+ 35	+33 34 31.56	+16.678	− 44

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.ˢ0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
80	67 Ceti	5.70	G 5	2 14 2.315	+2.9926	+ 60	− 6 41 35.39	+16.605	−105
82	[φ Eridani]	3.78	B 8	2 14 24.099	+2.1437	+ 98	−51 47 4.53	+16.678	− 16
81	[ϑ Arietis]	5.69	A 0	2 14 50.288	+3.3368	− 9	+19 37 45.19	+16.674	+ 3
83	[κ Fornacis]	5.37	F 5	2 19 50.541	+2.7455	+ 147	−24 5 0.94	+16.371	− 55
84	[λ Horologii]	5.47	F 2	2 23 14.824	+1.6774	− 95	−60 34 31.84	+16.129	−125
86	[κ Eridani]	4.44	B 5	2 24 49.356	+2.1995	+ 21	−47 58 4.55	+16.171	− 1
85	ξ² Ceti	4.34	A 0	2 25 1.080	+3.1895	+ 25	+ 8 11 47.87	+16.159	− 2
88	[λ¹ Fornacis]	5.88	K 0	2 30 39.372	+2.5014	− 19	−34 54 31.30	+15.849	− 17
87	36 H. Cassiop.	5.34	K 0	2 32 22.415	+5.6907	− 80	+72 33 43.59	+15.794	+ 23
90	μ Hydri	5.29	K 0	2 32 52.365	−1.2832	+ 460	−79 22 1.34	+15.712	− 36
89	ν Arietis	5.36	A 2	2 35 27.597	+3.4061	− 9	+21 42 26.72	+15.592	− 13
91	δ Ceti	4.04	B 2	2 36 27.308	+3.0749	+ 7	+ 0 4 30.25	+15.553	+ 3
95	[ε Hydri]	4.26	B 9	2 38 40.491	+0.9228	+ 171	−68 31 9.52	+15.444	+ 16
92	[Br 366 Cass]	5.84	A 2	2 39 43.065	+5.1544	+ 23	+67 34 32.48	+15.338	− 29
94	[35 Arietis]	4.58	B 3	2 39 58.962	+3.5200	+ 5	+27 27 26.38	+15.348	− 5
93	ϑ Persei	4.22	F 8	2 40 9.400	+4.0959	+ 344	+48 58 49.22	+15.260	− 83
96	†[γ Ceti]	3.58	A 2	2 40 14.420	+3.1085	− 95	+ 2 59 17.50	+15.192	−147
97	π Ceti	4.39	B 5	2 41 18.775	+2.8552	− 6	−14 6 27.39	+15.268	− 11
98	μ Ceti	4.36	F 0	2 41 44.909	+3.2429	+ 190	+ 9 51 58.07	+15.224	− 30
99	[η Persei]	3.93	K 0	2 46 22.538	+4.3737	+ 22	+55 39 7.87	+14.977	− 10
100	41 Arietis	3.68	B 8	2 46 30.249	+3.5307	+ 49	+27 1 6.79	+14.867	−113
101	β Fornacis	4.50	K 0	2 46 37.244	+2.5112	+ 72	−32 39 9.95	+15.138	+163
102	τ² Eridani	4.81	K 0	2 48 21.661	+2.7212	− 36	−21 14 46.60	+14.854	− 18
103	τ Persei	4.06	G 0 + A 5	2 50 3.581	+4.2514	+ 3	+52 31 21.07	+14.769	− 2
104	η Eridani	4.05	K 0	2 53 32.580	+2.9309	+ 53	− 9 7 54.79	+14.351	−214
106	ϑ Eridani *pr*	3.42 4.42	A 2	2 56 1.399	+2.2745	− 46	−40 32 24.77	+14.442	+ 26
105	47 H. Cephei	5.66	M 0	2 58 9.276	+7.9696	− 137	+79 11 18.02	+14.292	+ 11
107	α Ceti	2.82	M 0	2 59 11.523	+3.1360	− 6	+ 3 51 33.97	+14.148	− 73
108	γ Persei	3.08	F 5 + A 3	3 0 30.486	+4.3429	+ 1	+53 16 37.21	+14.136	− 2
109	*ρ Persei	var.	M 3	3 1 23.193	+3.8435	+ 111	+38 36 47.09	+13.981	−104
113	[ϑ Hydri]	5.52	B 8	3 2 7.180	+0.1218	+ 65	−72 7 58.05	+14.064	+ 23
110	μ Horologii	5.16	F 0	3 2 13.190	+1.4130	− 101	−59 57 57.42	+13.982	− 52
111	*β Persei	var.	B 8	3 4 19.232	+3.9026	+ 6	+40 43 47.50	+13.904	+ 3
112	[ι Persei]	4.17	G 0	3 4 47.743	+4.3278	+1296	+49 23 22.74	+13.795	− 76
114	δ Arietis	4.53	K 0	3 8 15.004	+3.4304	+ 107	+19 30 17.62	+13.647	− 4
117	†α Fornacis	3.95	F 8	3 9 33.811	+2.5484	+ 253	−29 13 7.14	+14.214	+646
116	[94 Ceti]	5.14	F 8	3 9 45.600	+3.0619	+ 131	− 1 24 56.00	+13.496	− 59
118	[38 G. Horol.]	5.72	N 0	3 11 3.257	+1.5188	+ 11	−57 32 30.54	+13.489	+ 17
115	48 H. Cephei	5.50	F 0	3 12 45.447	+7.5949	+ 196	+77 31 15.26	+13.303	− 55
119	[82 G. Erid]	4.30	G 5	3 17 34.279	+2.3959	+2786	−43 17 39.57	+13.798	+754

Nr. 109. Größe: Max. 3.3, Min. 4.1.   Nr. 111. Größe: Max. 2.3, Min. 3.5.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
120	α Persei	1.90	F 5	3 20 5.901	+4.2817	+ 30	+49 39 10.51	+12.853	— 22
121	o Tauri	3.80	G 5	3 21 38.064	+3.2285	— 45	+ 8 49 21.26	+12.701	— 71
123	[ξ Tauri]	3.75	B 8	3 23 58.061	+3.2514	+ 39	+ 9 31 42.20	+12.582	— 32
122	2 H. Camelop.	4.42	B 9 p	3 24 16.327	+4.8547	— 2	+59 44 11.96	+12.592	0
124	[σ Persei]	4.55	K 0	3 26 24.212	+4.2287	+ 8	+47 47 35.85	+12.471	+ 24
125	5 Tauri	4.28	K 0	3 27 36.696	+3.3123	+ 15	+12 44 9.13	+12.368	+ 3
126	[κ Reticuli]	4.80	F 5	3 28 20.480	+1.0462	+549	—63 8 41.94	+12.697	+381
127	ε Eridani	3.81	K 0	3 30 8.916	+2.8267	—660	— 9 39 24.52	+12.210	+ 20
128	[45 G. Horol.]	5.60	K 0	3 30 49.004	+1.7875	+ 75	—50 34 41.09	+12.231	+ 87
130	[110 G. Erid]	4.58	K 0	3 34 58.532	+2.1526	— 13	—40 28 2.01	+11.829	— 23
129	[Grb 716 Caml]	5.32	M 0	3 37 0.821	+5.2018	— 27	+63 1 39.45	+11.723	+ 17
131	δ Persei	3.10	B 5	3 38 42.802	+4.2704	+ 31	+47 36 2.54	+11.553	— 32
133	[δ Fornacis]	4.93	B 5	3 39 54.004	+2.3861	0	—32 7 32.82	+11.521	+ 19
135	[δ Eridani]	3.72	K 0	3 40 25.178	+2.8743	— 63	— 9 57 42.87	+12.211	+746
132	†[o Persei]	3.94	B 1	3 40 36.736	+3.7619	+ 7	+32 6 10.63	+11.441	— 9
134	ν Persei	3.93	F 5	3 41 10.606	+4.0753	— 8	+42 23 38.10	+11.409	0
136	[17 Tauri]	3.81	B 5 p	3 41 21.992	+3.5624	+ 15	+23 55 45.79	+11.355	— 41
137	[24 Eridani]	5.09	B 8	3 41 30.520	+3.0473	0	— 1 20 52.44	+11.383	— 3
141	β Reticuli	3.80	K 0	3 43 27.148	+0.7504	+481	—64 59 31.87	+11.330	+ 83
139	η Tauri	2.96	B 5 p	3 43 58.325	+3.5661	+ 15	+23 55 27.19	+11.164	— 44
138	γ Camelop.	4.67	A 0	3 44 5.613	+6.3239	+ 38	+71 9 11.44	+11.159	— 38
140	τ⁶ Eridani	4.33	F 8	3 44 18.488	+2.5812	—116	—23 25 22.30	+10.661	—524
142	[27 Tauri]	3.80	B 8	3 45 38.922	+3.5672	+ 13	+23 52 28.39	+11.043	— 43
143	138 G. Eridani	4.24	K 0	3 47 14.682	+2.2450	— 43	—36 22 40.26	+10.927	— 44
146	γ Hydri	3.17	M 0	3 48 7.858	—0.9342	+129	—74 25 12.67	+11.027	+120
144	ζ Persei	2.91	B 1	3 50 25.023	+3.7710	+ 7	+31 42 36.14	+10.726	— 10
145	†*9 H. Camel.	5.22	K 0 + A 0	3 52 5.317	+5.1125	— 5	+60 56 17.81	+10.600	— 12
147	ε Persei	2.96	B 1	3 53 53.206	+4.0254	+ 18	+39 50 28.55	+10.452	— 26
148	ξ Persei	4.05	O e 5	3 55 7.793	+3.8925	+ 4	+35 37 23.12	+10.385	— 1
149	γ Eridani	3.19	K 5	3 55 16.490	+2.7993	+ 44	—13 40 30.40	+10.268	—108
150	*λ Tauri	var.	B 3	3 57 24.465	+3.3239	— 4	+12 19 30.29	+10.204	— 11
151	ν Tauri	3.94	A 0	4 0 0.859	+3.1913	+ 1	+ 5 49 37.47	+10.020	+ 1
153	[174 G. Erid]	5.57	A 5	4 3 11.442	+2.4731	+153	—27 48 43.48	+ 9.883	+105
152	48 Persei	4.03	B 3 p	4 4 22.112	+4.3548	+ 24	+47 33 25.07	+ 9.659	— 27
154	o¹ Eridani	4.14	F 2	4 8 58.986	+2.9287	+ 6	— 6 59 24.24	+ 9.417	+ 86
155	α Horologii	3.83	K 0	4 12 2.675	+1.9876	+ 32	—42 26 19.98	+ 8.891	—204
156	α Reticuli	3.36	G 5	4 13 39.570	+0.7719	+ 61	—62 37 16.03	+ 9.022	+ 53
157	[γ Doradus]	4.36	F 5	4 14 28.691	+1.5717	+107	—51 38 4.62	+ 9.097	+192
160	†υ⁴ Eridani *m*	3.59	B 9	4 15 39.599	+2.2703	+ 48	—33 56 28.62	+ 8.809	— 3
159	[γ Tauri]	3.86	K 0	4 16 25.924	+3.4144	+ 81	+15 29 12.22	+ 8.728	— 23

Nr. 145. Doppelstern, Größe der Komponenten: 5.0 und 8.2. Nr. 150. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ.0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
158	[54 Persei]	5.10	G 5	4 16 34.404	+3.8953	− 20	+34 25 33.76	+8.732	− 6
161	[212 G. Erid]	5.31	A 0	4 18 4.494	+2.6173	+ 19	−20 46 44.98	+8.613	− 8
162	δ Tauri	3.93	K 0	4 19 31.707	+3.4601	+ 76	+17 24 20.66	+8.478	− 27
163	[η Reticuli]	5.18	K 0	4 21 14.718	+0.6481	+128	−63 31 33.93	+8.546	+175
166	[δ Mensae]	5.62	K 0 p	4 21 54.895	−4.0654	+128	−80 21 14.15	+8.390	+ 69
164	ε Tauri	3.63	K 0	4 25 10.054	+3.5033	+ 77	+19 3 4.39	+8.022	− 34
165	*[1 Camel. *sq*]	5.42	B 1	4 27 20.788	+4.7508	0	+53 47 5.29	+7.880	− 1
167	[δ Caeli]	5.16	B 3	4 29 1.568	+1.8375	+ 1	−45 4 46.08	+7.749	+ 2
168	α Tauri	1.06	K 5	4 32 31.917	+3.4426	+ 47	+16 23 32.20	+7.275	−188
171	α Doradus	3.47	A 0 p	4 32 43.115	+1.2963	+ 57	−55 9 58.55	+7.454	+ 5
170	[υ² Eridani]	3.88	K 0	4 33 15.308	+2.3325	− 39	−30 40 55.31	+7.395	− 10
169	ν Eridani	4.12	B 2	4 33 22.122	+2.9980	+ 2	− 3 28 17.98	+7.393	− 2
172	53 Eridani	3.98	K 0	4 35 28.607	+2.7479	− 48	−14 25 5.06	+7.063	−161
174	τ Tauri	4.33	B 5	4 38 41.993	+3.6010	− 1	+22 50 43.69	+6.945	− 15
173	Grb 848 Caml	6.04	F 0	4 40 51.409	+8.0668	+104	+75 50 15.38	+6.644	−134
176	[μ Eridani]	4.18	B 5	4 42 32.996	+3.0000	+ 9	− 3 21 40.83	+6.634	− 10
175	4 Camelop.	5.35	A 2	4 43 4.743	+4.9972	+ 65	+56 39 17.30	+6.453	−145
177	[μ Mensae]	5.69	B 9	4 43 38.651	−0.6002	+ 20	−71 2 22.15	+6.589	+ 34
179	[π⁴ Orionis]	3.78	B 3	4 48 3.664	+3.1955	− 2	+ 5 30 20.83	+6.189	+ 3
178	α Camelop.	4.38	B 0	4 48 10.125	+5.9619	+ 3	+66 14 43.39	+6.185	+ 9
180	π⁵ Orionis	3.87	B 3	4 51 10.531	+3.1251	− 3	+ 2 20 44.15	+5.930	+ 3
181	ι Aurigae	2.90	K 2	4 53 8.819	+3.9070	+ 3	+33 4 28.45	+5.743	− 18
183	*ε Aurigae	var.	F 5 p	4 57 43.788	+4.3053	+ 4	+43 44 17.17	+5.370	− 6
182	β Camelop.	4.22	G 0 p	4 58 9.570	+5.3359	− 6	+60 21 30.98	+5.325	− 14
184	ι Tauri	4.70	A 5	4 59 33.944	+3.5862	+ 47	+21 30 26.84	+5.182	− 40
185	η Aurigae	3.28	B 3	5 2 22.342	+4.2071	+ 27	+41 9 24.41	+4.918	− 66
186	ε Leporis	3.29	K 5	5 2 57.719	+2.5399	+ 18	−22 26 56.42	+4.866	− 69
187	[η² Pictoris]	4.92	K 5	5 3 26.127	+1.5531	+ 55	−49 39 25.33	+4.895	0
189	[ζ Doradus]	4.76	F 8	5 4 29.747	+1.0276	− 52	−57 33 9.86	+4.924	+118
188	β Eridani	2.92	A 3	5 4 56.828	+2.9495	− 64	− 5 9 40.42	+4.689	− 77
190	[λ Eridani]	4.34	B 2	5 6 19.262	+2.8714	+ 1	− 8 49 41.96	+4.647	− 3
192	μ Aurigae	4.78	A 3	5 9 23.196	+4.1054	− 17	+38 24 59.61	+4.309	− 78
194	β Orionis	0.34	B 8 p	5 11 42.050	+2.8834	+ 2	− 8 16 6.17	+4.190	− 1
193	α Aurigae	0.21	G 0	5 12 19.580	+4.4323	+ 81	+45 56 24.89	+3.714	−422
191	19 H. Camelop.	5.16	F 8	5 12 47.611	+9.8802	−293	+79 10 5.57	+4.250	+158
196	ϑ Doradus	4.78	K 0	5 13 47.761	−0.0481	+ 10	−67 15 6.34	+4.049	+ 35
195	[τ Orionis]	3.68	B 5	5 14 44.387	+2.9133	− 11	− 6 54 24.22	+3.923	− 8
197	[o Columbae]	4.91	K 0	5 15 21.310	+2.1637	+ 69	−34 57 6.72	+3.540	−338
198	[12 G. Columb.]	5.75	A 0	5 17 2.523	+2.3923	+ 5	−27 25 41.74	+3.729	− 4
199	[ζ Pictoris]	5.52	F 8	5 17 55.113	+1.4708	+ 10	−50 40 6.99	+3.892	+234

Nr. 165. Doppelstern, Größe der Komponenten: 5.86 und 6.61.   Nr. 183. Größe: Max. 3.4, Min. 4.1.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
200	†[η Orion. *m*]	3.44	B 1	5 21 30.528	+3.0167	0	− 2 26 59.52	+3.350	+ 2
201	γ Orionis	1.70	B 2	5 21 57.875	+3.2179	− 6	+ 6 17 52.11	+3.294	− 15
202	β Tauri	1.78	B 8	5 22 33.579	+3.7928	+ 20	+28 33 34.17	+3.082	−175
203	17 Camelop.	5.75	K 5	5 24 35.404	+5.6661	− 7	+63 1 14.78	+3.078	− 2
204	[β Leporis]	2.96	G 0	5 25 42.969	+2.5711	+ 1	−20 48 18.88	+2.894	− 91
206	δ Orionis	2.48 6.87	B 0	5 28 59.434	+3.0652	0	− 0 20 28.44	+2.703	+ 1
207	α Leporis	2.69	F 0	5 30 7.591	+2.6463	+ 2	−17 51 47.39	+2.607	+ 4
208	[φ¹ Orionis]	4.53	B 0	5 31 34.770	+3.2937	− 1	+ 9 27 4.57	+2.474	− 2
205	Grb 966 Caml	6.36	K 5	5 31 49.296	+8.0234	− 20	+75 0 31.68	+2.478	+ 26
209	ι Orionis	2.87	O e 5	5 32 32.722	+2.9350	+ 1	− 5 56 49.50	+2.397	+ 4
212	β Doradus	3.81	F 5 p	5 33 6.591	+0.5198	− 11	−62 31 41.27	+2.354	+ 9
210	ε Orionis	1.75	B 0	5 33 13.079	+3.0444	0	− 1 14 16.98	+2.335	+ 1
211	ζ Tauri	3.00	B 3 p	5 34 6.991	+3.5857	+ 1	+21 6 29.99	+2.234	− 22
214	[γ Mensae]	5.06	K 0	5 34 12.584	−2.3777	+306	−76 23 2.89	+2.547	+294
213	†[σ Orionis *m*]	3.78	B 0	5 35 46.945	+3.0119	− 1	− 2 37 57.30	+2.114	+ 2
215	α Columbae	2.75	B 5 p	5 37 30.656	+2.1728	+ 2	−34 6 15.92	+1.936	− 26
216	ο Aurigae	5.52	A 0	5 41 19.596	+4.6482	− 10	+49 48 10.03	+1.625	− 3
217	[γ Leporis]	3.80	F 8	5 42 0.158	+2.5017	−205	−22 27 58.89	+1.200	−371
218	[130 Tauri]	5.51	F 0	5 43 59.667	+3.4983	− 4	+17 42 31.35	+1.388	− 8
219	ζ Leporis	3.67	A 2	5 44 16.838	+2.7187	− 12	−14 50 33.50	+1.367	− 5
220	κ Orionis	2.20	B 0	5 44 57.416	+2.8456	+ 2	− 9 41 21.07	+1.308	− 4
221	[ν Aurigae]	4.18	K 0	5 47 23.914	+4.1581	− 5	+39 7 59.76	+1.105	+ 7
222	[δ Leporis]	3.90	K 0	5 48 46.987	+2.5806	+167	−20 52 58.04	+0.330	−649
223	[β Columbae]	3.22	K 0	5 48 52.685	+2.1148	+ 39	−35 47 21.82	+1.375	+404
224	α Orionis	0.92	M 0	5 51 58.586	+3.2484	+ 19	+ 7 23 51.77	+0.711	+ 11
226	[η Leporis]	3.77	F 0	5 53 42.975	+2.7328	− 29	−14 10 37.66	+0.685	+138
225	δ Aurigae	3.88	K 0	5 54 40.057	+4.9406	+ 97	+54 16 57.38	+0.336	−127
227	β Aurigae	2.07	A 0 p	5 55 11.975	+4.4014	− 50	+44 56 37.11	+0.414	− 3
228	†θ Aurigae	2.71	A 0 p	5 55 41.799	+4.0916	+ 40	+37 12 37.60	+0.290	− 83
229	η Columbae	4.03	K 0	5 57 20.347	+1.8364	+ 13	−42 49 3.22	+0.214	− 17
230	[66 Orionis]	5.70	K 0	6 1 51.222	+3.1700	− 4	+ 4 9 48.83	−0.171	− 7
231	[1 G. Puppis]	6.22	F 8	6 2 46.432	+1.7265	− 88	−45 2 7.49	+0.003	+247
232	ν Orionis	4.40	B 2	6 4 12.121	+3.4258	+ 3	+14 46 37.93	−0.393	− 23
233	[36 Camelop.]	5.39	K 0	6 6 54.958	+6.0368	+ 12	+65 43 59.51	−0.638	− 29
235	[δ Pictoris]	4.84	B 1	6 9 8.855	+1.1676	− 19	−54 57 17.10	−0.788	+ 13
236	†*η Gemin.	var.	M 0	6 11 18.913	+3.6218	− 48	+22 31 32.55	−1.005	− 13
239	[α Mensae]	5.14	K 0	6 12 0.042	−1.7854	+305	−74 44 1.38	−1.263	−215
234	22 H. Camelop.	4.73	A 0	6 12 20.859	+6.6130	+ 9	+69 20 38.25	−1.188	−103
237	[2 Lyncis]	4.42	A 0	6 14 25.077	+5.2944	− 12	+59 2 5.50	−1.244	+ 20
238	[κ Columbae]	4.51	K 0	6 14 27.059	+2.1338	− 14	−35 7 11.23	−1.181	+ 84

Nr. 236. Größe: Max. 3.3, Min. 4.2.

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
240	ζ Canis maj.	3.10	B 3	6 18 2.814	+ 2.3034	+ 5	−30 2 9.47	−1.574	+ 5
241	μ Geminor.	3.19	Mo	6 19 23.432	+ 3.6299	+ 40	+22 32 44.40	−1.809	− 112
243	β Canis maj.	1.99	B 1	6 20 6.021	+ 2.6422	− 4	−17 55 31.30	−1.761	− 4
242	ψ¹ Aurigae	5.10	K 2	6 20 21.291	+ 4.6216	+ 1	+49 19 13.02	−1.786	− 4
244	8 ε Monocer.	4.48 6.54	A 5	6 20 38.444	+ 3.1795	− 12	+ 4 37 27.98	−1.795	+ 11
245	α Carinae	−0.86	F 0	6 22 38.478	+ 1.3324	+ 24	−52 39 45.61	−1.953	+ 25
246	10 Monocer.	4.98	B 3	6 25 2.684	+ 2.9627	− 6	− 4 43 27.00	−2.184	+ 4
247	8 Lyncis	6.05	G 0	6 32 18.126	+ 5.4843	−289	+61 32 8.50	−3.098	− 279
249	ξ² Canis maj.	4.54	A 0	6 32 34.935	+ 2.5145	+ 6	−22 55 0.50	−2.828	+ 14
251	γ Geminor.	1.93	A 0	6 34 18.206	+ 3.4663	+ 30	+16 27 4.81	−3.036	− 44
250	51 Aurigae	5.71	K 0	6 34 34.268	+ 4.1577	− 22	+39 26 41.39	−3.130	− 115
252	ν Puppis	3.18	B 8	6 35 57.269	+ 1.8355	− 7	−43 8 35.49	−3.134	− 1
248	23 H. Camelop.	5.60	F 8	6 36 12.110	+10.2549	−303	+79 38 0.57	−3.768	− 608
253	†**S* Monoc.	4.68	O e 5	6 37 43.689	+ 3.3043	− 1	+ 9 57 6.84	−3.294	− 7
254	ε Geminor.	3.18	G 5	6 40 18.138	+ 3.6914	− 5	+25 11 28.79	−3.524	− 15
256	ξ Geminor.	3.40	F 5	6 41 58.659	+ 3.3674	− 80	+12 57 39.02	−3.848	− 195
255	[ψ⁵ Aurigae]	5.34	G 0	6 42 29.282	+ 4.3252	− 1	+43 38 17.75	−3.535	+ 162
257	*α Canis maj.	−1.58	A 0	6 42 32.937	+ 2.6435	−373	−16 38 2.04	−4.912	−1211
258	18 Monocer.	4.70	K 0	6 44 47.017	+ 3.1284	− 14	+ 2 28 41.75	−3.907	− 13
264	[ζ Mensae]	5.64	A 2	6 44 59.547	− 4.9802	− 24	−80 45 13.61	−3.847	+ 59
259	[43 Camelop.]	5.13	B 5	6 47 21.172	+ 6.4728	+ 2	+68 57 36.00	−4.112	+ 4
262	α Pictoris	3.30	A 5	6 47 35.160	+ 0.6158	−108	−61 52 39.34	−3.863	+ 269
263	[τ Puppis]	2.83	K 0	6 48 28.247	+ 1.4884	+ 26	−50 32 36.75	−4.281	− 72
261	ϑ Geminor.	3.64	A 2	6 48 54.081	+ 3.9549	− 1	+34 2 3.44	−4.299	− 52
266	ϑ Canis maj.	4.25	K 2	6 51 26.869	+ 2.7876	− 95	−11 57 48.14	−4.478	− 14
260	[24 H. Camel.]	4.75	K 5	6 51 29.463	+ 8.7610	+210	+77 3 24.54	−4.483	− 12
267	[ι Volantis]	5.52	B 8	6 52 7.819	− 0.6853	− 10	−70 53 24.87	−4.500	+ 20
265	†15 Lyncis *m*	4.54	G 0	6 52 10.362	+ 5.1967	− 7	+58 30 9.13	−4.664	− 137
268	ε Canis maj.	1.63	B 1	6 56 18.371	+ 2.3583	+ 4	−28 53 26.24	−4.874	+ 2
270	[o² Canis maj.]	3.12	B 5 p	7 0 33.599	+ 2.5055	− 1	−23 44 45.16	−5.235	+ 2
269	*ζ Geminor.	var.	G 0 p	7 0 36.600	+ 3.5587	− 7	+20 39 30.83	−5.245	− 3
271	γ Canis maj.	4.07	B 5	7 1 5.298	+ 2.7147	+ 1	−15 32 41.12	−5.290	− 9
272	[27 G. Carinae]	5.30	A 0	7 3 12.292	+ 1.1176	− 12	−56 39 34.30	−5.457	+ 2
273	δ Canis maj.	1.98	F 8 p	7 5 59.484	+ 2.4396	− 3	−26 17 53.96	−5.689	+ 5
274	63 Aurigae	5.07	K 2	7 7 35.965	+ 4.1275	+ 36	+39 25 7.34	−5.832	− 2
275	[*J* Puppis]	4.47	F 0	7 10 52.617	+ 1.7101	−142	−46 39 35.91	−6.004	+ 98
276	[64 Aurigae]	5.75	A 3	7 13 56.218	+ 4.1727	− 16	+40 59 24.47	−6.346	+ 11
277	λ Geminor.	3.65	A 2	7 14 42.164	+ 3.4481	− 35	+16 38 54.45	−6.459	− 39
278	π Puppis	2.74	K 5	7 15 3.485	+ 2.1192	− 8	−36 59 25.41	−6.440	+ 9
279	δ Geminor.	3.51	F 0	7 16 36.018	+ 3.5835	− 19	+22 5 33.58	−6.591	− 14

Nr. 253. Doppelstern, Größe der Komponenten: 6.0 und 8.8.
Nr. 257. Ort des Schwerpunktes. Die Reduktion auf den Hauptstern ist nach den Elementen von Volet, Bull. Astr. II, Bd. 7, 1931.

1941.0	Δα = +0.s018	Δδ = −0."93
1942.0	= +0.036	= −0.57

Nr. 269. Größe: Max. 3.7, Min. 4.3.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
281	δ Volantis	4.02	F 5	7 16 51.916	−0.0278	− 12	−67 50 57.22	− 6.599	− 2
280	19 Lyncis *sq*	5.61	B 8	7 18 3.593	+4.8975	− 8	+55 23 41.41	− 6.733	− 35
283	[η Can. maj.]	2.43	B 5 p	7 21 45.613	+2.3732	− 5	−29 11 12.81	− 6.996	+ 6
282	ι Geminor.	3.89	K o	7 22 3.836	+3.7269	− 92	+27 55 1.41	− 7.116	− 89
285	β Canis min.	3.09	B 8	7 23 57.073	+3.2537	− 38	+ 8 24 35.07	− 7.221	− 40
284	Grb 1308 Caml	5.80	K o	7 24 45.473	+6.2477	− 22	+68 35 20.71	− 7.289	− 40
286	ρ Geminor.	4.18	F o	7 25 19.111	+3.8594	+116	+31 54 12.73	− 7.121	+ 172
287	*α Geminor.	2.85 1.99	A o	7 30 50.201	+3.8300	−138	+32 1 10.14	− 7.844	− 103
288	[108 G. Pupp.]	4.52	F 8	7 31 31.538	+2.5677	− 38	−22 10 3.24	− 7.760	+ 35
289	25 Monocer.	5.17	F 5	7 34 20.642	+2.9829	− 51	− 3 58 40.45	− 8.006	+ 16
290	[127 G. Puppis]	4.62	B 8	7 35 11.012	+2.2196	− 27	−34 50 4.83	− 8.070	+ 18
291	*α Canis min.	0.48	F 5	7 36 12.849	+3.1406	−473	+ 5 22 39.55	− 9.201	−1030
292	24 Lyncis	4.96	A 2	7 38 1.508	+5.0792	− 53	+58 51 2.54	− 8.371	− 54
293	[26 α Monocer.]	4.07	K o	7 38 25.668	+2.8666	− 51	− 9 24 44.07	− 8.372	− 24
294	ϰ Geminor.	3.68	G 5	7 40 53.260	+3.6227	− 23	+24 32 28.13	− 8.597	− 54
295	β Geminor.	1.21	K o	7 41 42.474	+3.6718	−475	+28 10 13.18	− 8.661	− 53
297	ζ Volantis	3.89	K o	7 42 33.580	−0.7339	+ 58	−72 27 52.73	− 8.655	+ 18
296	π Geminor.	5.29	K 2	7 43 42.312	+3.8694	− 9	+33 33 44.00	− 8.797	− 31
298	†[9 Pupp. *m*]	5.34	G o	7 49 2.324	+2.7782	− 45	−13 44 24.94	− 9.526	− 344
301	[213 G. Puppis]	3.76	G 5	7 50 11.230	+2.0619	− 21	−40 25 21.64	− 9.270	0
299	[26 Lyncis]	5.69	K o	7 50 25.314	+4.3701	− 50	+47 43 10.17	− 9.292	− 2
300	Grb 1374 Caml	5.56	K o	7 53 10.385	+7.1938	− 29	+74 4 43.34	− 9.539	− 35
303	χ Carinae	3.60	B 3	7 55 16.673	+1.5253	− 41	−52 49 23.71	− 9.634	+ 29
302	[53 Camelop.]	6.00	A 2 p	7 56 40.774	+5.1266	− 74	+60 29 16.57	− 9.794	− 22
304	[27 Monocer.]	5.06	K o	7 56 47.259	+2.9971	− 43	− 3 31 2.69	− 9.781	− 1
305	χ Geminor.	5.04	K o	7 59 53.829	+3.6854	− 21	+27 57 40.74	−10.062	− 46
306	ζ Puppis	2.27	O d	8 1 30.553	+2.1085	− 30	−39 50 9.39	−10.124	+ 13
307	27 Lyncis	4.87	A 2	8 4 1.662	+4.5152	− 67	+51 40 43.08	−10.337	− 9
308	ρ Puppis	2.88	F 5	8 5 1.826	+2.5553	− 60	−24 7 58.91	−10.351	+ 51
309	γ Velorum	2.22	O a p	8 7 42.810	+1.8492	− 8	−47 9 42.75	−10.596	+ 5
311	20 Puppis	5.05	G 5	8 10 37.199	+2.7576	− 12	−15 36 33.42	−10.823	− 6
310	Br 1147 Caml	5.73	G 5	8 12 10.962	+7.5507	+ 65	+75 56 24.59	−10.919	+ 15
312	β Cancri	3.76	K 2	8 13 18.989	+3.2539	− 34	+ 9 22 7.50	−11.066	− 51
313	[289 G. Puppis]	4.43	A 5	8 16 20.721	+2.2455	− 94	−36 28 31.86	−11.143	+ 91
314	31 Lyncis	4.43	K 5	8 18 48.181	+4.1095	− 16	+43 22 44.52	−11.517	− 104
315	ε Carinae	1.74	K o + B	8 21 18.274	+1.2319	− 37	−59 19 8.55	−11.572	+ 18
318	ϑ Chamael.	4.26	K o	8 22 27.011	−1.7847	−386	−77 17 41.29	−11.632	+ 38
316	Br 1197 Hydra	3.95	A o	8 22 42.738	+2.9981	− 46	− 3 42 45.83	−11.717	− 26
319	[β Volantis]	3.65	K o	8 25 6.099	+0.6559	− 43	−65 56 22.66	−12.019	− 160
317	o Ursae maj.	3.47	G o	8 25 22.731	+4.9893	−185	+60 55 2.67	−11.993	− 112

Nr. 287. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sterns beträgt nach den Elementen von Rabe, Astron. Nachr. Bd. 216, 1922:

1941.0 $\Delta\alpha = +0.^s024$ $\Delta\delta = +1.''08$
1942.0 $= +0.020$ $= +1.03$

Nr. 291. Ort des Schwerpunktes. Die Reduktion auf den Ort des hellen Sterns beträgt nach den Elementen von Jones, Monthly Notices Bd. 88, 1928:

1941.0 $\Delta\alpha = +0.^s028$ $\Delta\delta = -1.''13$
1942.0 $= +0.021$ $= -1.17$

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
320	Grb 1450 Lynx	6.05	K o	8 29 5.182	+3.9017	— 36	+38 13 13.01	—12.313	—173
321	η Cancri	5.52	K o	8 29 17.928	+3.4699	— 35	+20 38 34.61	—12.204	— 49
322	[Grb 1446 Caml]	6.29	K o	8 33 11.676	+6.6855	— 50	+73 50 18.59	—12.530	—104
323	[Grb 1460 UMaj]	6.03	K o	8 34 55.937	+4.4482	— 39	+52 55 12.05	—12.580	— 37
324	[48 G. Velorum]	4.13	A 5	8 35 34.056	+2.1090	— 17	—42 46 54.40	—12.578	+ 7
325	[6 Hydrae]	5.15	K 2	8 37 13.693	+2.8423	— 60	—12 15 56.62	—12.704	— 6
327	α Pyxidis	3.70	B 2	8 41 13.195	+2.4108	— 13	—32 58 21.81	—12.957	+ 9
326	δ Cancri	4.17	K o	8 41 20.056	+3.4099	— 14	+18 22 20.81	—13.208	—233
330	†δ Velorum *m*	2.01	A o	8 43 4.455	+1.6570	+ 22	—54 29 29.49	—13.165	— 76
328	ι Cancri	6.61 4.20	A 5 G 5	8 43 7.839	+3.6315	— 19	+28 58 37.62	—13.139	— 45
331	[η Chamael.]	5.62	B 9	8 43 22.903	—2.0178	— 78	—78 45 0.03	—13.087	+ 20
329	†[ε Hydrae *m*]	3.48	F 8	8 43 39.156	+3.1776	— 130	+ 6 38 11.19	—13.183	— 55
332	[γ Pyxidis]	4.19	K 2	8 48 1.591	+2.5464	— 101	—27 29 24.51	—13.334	+ 81
333	†[σ² Canc. *m*]	5.60	K o	8 50 38.942	+3.6616	+ 28	+30 48 14.95	—13.609	— 24
334	ζ Hydrae	3.30	K o	8 52 16.545	+3.1717	— 69	+ 6 10 16.44	—13.679	+ 10
336	108 G. Carinae	3.98	B 8	8 53 42.706	+1.3611	— 25	—60 25 7.07	—13.738	+ 41
335	ι Ursae maj.	3.12	A 5	8 55 10.646	+4.1101	— 443	+48 16 28.97	—14.114	—241
337	α Cancri	4.27	A 3	8 55 15.713	+3.2817	+ 22	+12 5 14.36	—13.912	— 34
339	Br 1268 Lynx	4.09	F 5	8 56 49.014	+3.8965	— 395	+42 1 3.81	—14.234	—258
338	[ρ Ursae maj.]	4.99	M o	8 57 15.207	+5.4180	— 45	+67 51 41.27	—13.989	+ 16
341	κ Ursae maj.	3.68	A o	8 59 36.380	+4.0984	— 35	+47 23 28.81	—14.208	— 58
340	[Grb 1501 UMaj]	5.68	A 2	8 59 41.747	+4.3987	— 14	+54 31 4.58	—14.157	— 1
343	α Volantis	4.18	A 5	9 1 31.262	+0.9501	+ 11	—66 9 36.73	—14.368	—101
342	[97 G. Velorum]	3.69	K o	9 2 7.042	+2.0684	— 57	—46 51 43.45	—14.319	— 15
344	†σ² Ursae maj.	4.87	F 8	9 5 13.577	+5.2829	— 44	+67 22 32.96	—14.572	— 78
345	λ Velorum	2.22	K 5	9 5 49.421	+2.2064	— 25	—43 11 36.65	—14.514	+ 15
346	[36 Lyncis]	5.30	B 8	9 9 57.140	+3.9259	— 27	+43 27 44.29	—14.815	— 39
347	ϑ Hydrae	3.84	A o	9 11 17.725	+3.1219	+ 86	+ 2 33 51.18	—15.169	—314
348	β Carinae	1.80	A o	9 12 33.737	+0.6633	— 280	—69 28 26.09	—14.825	+103
349	†[38 Lyncis]	3.82	A 2	9 15 10.731	+3.7349	— 26	+37 3 12.50	—15.211	—130
351	[ι Carinae]	2.25	F o	9 15 30.655	+1.6067	— 23	—59 1 37.73	—15.094	+ 5
350	*83 Cancri	6.60	F 5	9 15 41.419	+3.3489	— 87	+17 57 23.51	—15.245	—135
352	α Lyncis	3.30	K 5	9 17 27.970	+3.6561	— 181	+34 38 35.52	—15.200	+ 13
353	κ Velorum	2.63	B 3	9 20 17.111	+1.8580	— 12	—54 45 28.86	—15.361	+ 10
354	α Hydrae	2.16	K 2	9 24 41.260	+2.9484	— 10	— 8 24 7.15	—15.589	+ 27
356	[ε Antliae]	4.64	K 2	9 26 48.463	+2.4760	— 22	—35 41 33.21	—15.741	— 10
355	23 Ursae maj.	3.75	F o	9 26 53.948	+4.7354	+ 156	+63 19 16.65	—15.711	+ 25
359	†ψ Velorum *m*	3.64	F 5	9 28 22.415	+2.3625	— 167	—40 12 27.34	—15.745	+ 71
358	ϑ Ursae maj.	3.26	F 8 p	9 28 55.358	+4.0153	—1031	+51 56 50.72	—16.388	—543
357	24 Ursae maj.	4.57	G o	9 29 18.014	+5.3138	— 135	+70 5 28.70	—15.791	+ 75

Nr. 350. Größe aus Harvard 54 entnommen.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.''001
		m		h m s	s		° ' "	"	
361	[*N* Velorum]	3.04	K 5	9 29 25.658	+1.8230	— 42	—56 46 24.50	—15.870	+ 2
360	10 Leon. min.	4.62	G 5	9 30 36.885	+3.6767	+ 4	+36 39 38.04	—15.965	— 29
362	[*H* Carinae]	5.52	K 2	9 31 10.638	+0.4563	— 32	—72 49 8.77	—15.972	— 8
363	[Grb 1564 UMaj]	5.74	K 0	9 37 13.792	+5.1442	—141	+69 30 27.04	—16.354	— 74
364	[κ Hydrae]	4.96	B 3	9 37 28.589	+2.8761	— 20	—14 3 49.68	—16.316	— 24
365	[ο Leonis]	3.76	F 5 + A 3	9 38 0.188	+3.2024	— 98	+10 9 42.03	—16.358	— 39
366	ϑ Antliae	4.98	F 5 p	9 41 34.167	+2.6743	— 38	—27 29 54.98	—16.468	+ 30
367	ε Leonis	3.12	G 0 p	9 42 30.341	+3.4062	— 35	+24 2 48.67	—16.561	— 17
369	†υ Carinae	3.15 6.03	F 0	9 45 37.675	+1.5011	— 10	—64 47 51.85	—16.688	+ 9
368	υ Ursae maj.	3.89	F 0	9 46 48.671	+4.2704	—386	+59 19 2.64	—16.911	—157
370	6 Sextantis	6.00	A 2	9 48 15.611	+3.0232	+ 5	— 3 57 57.74	—16.856	— 33
371	[μ Leonis]	4.10	K 0	9 49 24.717	+3.4128	—162	+26 17 8.60	—16.938	— 60
373	[183 G. Hydrae]	5.16	M 0	9 52 5.144	+2.8301	— 31	—18 43 44.85	—17.050	— 47
372	Grb 1586 UMaj	5.96	K 0	9 53 9.176	+5.3746	—183	+73 9 41.03	—17.096	— 43
374	[19 Leon. min.]	5.19	F 5	9 54 4.682	+3.6761	—107	+41 20 15.05	—17.124	— 30
375	[φ Velorum]	3.70	B 5	9 54 47.272	+2.1059	— 16	—54 17 10.36	—17.116	+ 11
377	[η Antliae]	5.25	F 0	9 56 20.176	+2.5734	— 81	—35 36 28.52	—17.221	— 25
376	[12 Sextantis]	6.63	A 5	9 56 39.459	+3.1120	— 49	+ 3 40 3.30	—17.193	+ 18
378	π Leonis	4.89	M 0	9 57 5.798	+3.1707	— 23	+ 8 19 41.11	—17.257	— 27
379	η Leonis	3.58	A 0 p	10 4 7.086	+3.2712	— 4	+17 3 4.09	—17.542	— 6
380	α Leonis	1.34	B 8	10 5 13.897	+3.1955	—169	+12 15 22.79	—17.581	+ 2
381	λ Hydrae	3.83	K 0	10 7 42.629	+2.9250	—138	—12 3 42.37	—17.780	— 93
382	191 G. Velorum	4.09	A 2	10 12 15.319	+2.5178	—136	—41 49 44.53	—17.829	+ 40
385	[ω Carinae]	3.56	B 8	10 12 20.262	+1.4294	— 45	—69 44 40.50	—17.870	+ 2
384	ζ Leonis	3.65	F 0	10 13 24.717	+3.3374	+ 11	+23 42 43.35	—17.928	— 12
383	λ Ursae maj.	3.52	A 2	10 13 32.780	+3.6200	—152	+43 12 35.22	—17.965	— 45
386	μ Ursae maj.	3.21	K 5	10 18 49.295	+3.5759	— 75	+41 47 49.15	—18.094	+ 29
387	30 H. Urs. maj.	4.92	A 0	10 19 54.043	+4.3318	— 24	+65 51 56.26	—18.188	— 25
388	[25 Sextantis]	6.10	B 9	10 20 27.503	+3.0323	— 37	— 3 46 30.77	—18.183	0
391	*J* Carinae	4.08	F 5	10 23 13.809	+1.1936	— 29	—73 43 51.78	—18.310	— 26
389	μ Hydrae	4.06	K 5	10 23 14.101	+2.9017	— 89	—16 32 4.21	—18.367	— 84
392	α Antliae	4.42	K 5	10 24 26.937	+2.7453	— 57	—30 46 0.07	—18.312	+ 15
390	β Leon. min.	4.41	K 0	10 24 28.653	+3.4706	—102	+37 0 36.71	—18.437	—109
393	196 G. Carinae	4.08	F 0	10 25 42.486	+2.2013	— 20	—58 26 15.64	—18.376	— 5
394	36 Ursae maj.	4.84	F 5	10 26 51.861	+3.8425	—218	+56 17 1.81	—18.447	— 35
396	[ρ Leonis]	3.85	B 0 p	10 29 42.332	+3.1593	— 6	+ 9 36 38.89	—18.514	— 6
397	[203 G. Carinae]	3.58	B 5 p	10 29 55.277	+2.1326	— 27	—61 22 52.86	—18.506	+ 9
395	9 H. Dracon.	5.04	G 5	10 30 8.076	+5.1131	— 96	+76 1 4.07	—18.532	— 9
399	[44 Hydrae]	5.32	K 2	10 31 12.335	+2.8535	— 7	—23 26 26.04	—18.540	+ 18
398	[37 Ursae maj.]	5.16	F 0	10 31 22.533	+3.8682	+ 78	+57 23 13.97	—18.530	+ 34

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0″001
		m		h m s	s		° ′ ″	″	
401	[γ Chamael.]	4.10	M o	10 34 47.231	+0.7157	−125	−78 18 5.58	−18.654	+ 20
400	†*[222 G. Velor. *m*]	4.06	F 2 + A 3	10 34 49.003	+2.5201	−157	−47 55 7.28	−18.694	− 19
402	[225 G. Velorum]	4.37	G o	10 36 57.180	+2.3872	− 21	−55 17 43.98	−18.744	− 2
404	33 Sextantis	6.40	K o	10 38 24.059	+3.0521	− 94	− 1 25 51.23	−18.912	−125
403	[35 H. Urs. maj.]	5.23	K o	10 38 52.326	+4.3031	− 8	+69 23 7.78	−18.819	− 17
405	[41 Leon. min.]	5.05	A 2	10 40 12.658	+3.2627	− 85	+23 29 52.14	−18.836	+ 5
406	ϑ Carinae	3.03	B o	10 40 50.810	+2.1398	− 24	−64 5 5.43	−18.848	+ 12
407	42 Leon. min.	5.37	B 9	10 42 35.307	+3.3369	− 21	+30 59 36.94	−18.952	− 41
408	†μ Velorum	2.84	G 5	10 44 13.588	+2.5796	+ 73	−49 6 28.45	−19.007	− 49
411	[δ² Chamael.]	4.62	B 3	10 45 15.144	+0.5711	−153	−80 13 44.13	−18.985	+ 2
409	53 Leonis	5.27	A o	10 46 9.413	+3.1538	− 4	+10 51 28.42	−19.040	− 28
410	[ν Hydrae]	3.32	K o	10 46 42.700	+2.9603	+ 67	−15 53 4.00	−18.833	+195
412	[46 Leon. min.]	3.92	K o	10 50 1.034	+3.3564	+ 70	+34 32 0.21	−19.402	−285
414	[ι Antliae]	4.70	K o	10 53 57.815	+2.7956	+ 67	−36 49 12.61	−19.350	−132
413	[Br 1508 Drac]	6.26	G 5	10 55 17.560	+4.8119	−246	+78 5 12.44	−19.282	− 31
415	239 G. Velorum	4.56	A 2	10 57 26.487	+2.7516	+ 17	−41 54 32.70	−19.306	− 4
416	β Ursae maj.	2.44	A o	10 58 17.647	+3.6236	+ 97	+56 41 56.75	−19.295	+ 27
417	α Ursae maj.	1.95	K o	11 0 6.200	+3.7066	−174	+62 4 11.76	−19.435	− 71
418	χ Leonis	4.66	F o	11 1 58.442	+3.0949	−231	+ 7 39 19.28	−19.454	− 49
419	[χ¹ Hydrae]	5.06	F 5	11 2 29.129	+2.8900	−143	−26 58 28.98	−19.420	− 4
420	ψ Ursae maj.	3.15	K o	11 6 21.229	+3.3747	− 62	+44 49 8.47	−19.528	− 31
421	β Crateris	4.52	A 2	11 8 45.177	+2.9507	+ 3	−22 30 12.19	−19.648	−103
422	δ Leonis	2.58	A 3	11 10 58.371	+3.1913	+102	+20 50 50.16	−19.722	−136
423	ϑ Leonis	3.41	A o	11 11 8.729	+3.1485	− 43	+15 45 8.49	−19.672	− 82
424	[Grb 1757 UMaj]	5.97	K o	11 13 22.852	+3.3829	− 94	+49 47 54.87	−19.646	− 15
425	ν Ursae maj.	3.71	K o	11 15 17.775	+3.2416	− 23	+33 24 59.39	−19.641	+ 22
426	δ Crateris	3.82	K o	11 16 23.301	+2.9994	− 85	−14 27 32.40	−19.482	+200
427	σ Leonis	4.13	A o	11 18 5.645	+3.0937	− 64	+ 6 21 10.69	−19.723	− 13
428	π Centauri	4.26	B 5	11 18 18.529	+2.7354	− 31	−54 10 2.62	−19.717	− 4
429	Grb 1771 UMaj	5.98	A o	11 19 21.974	+3.5690	− 13	+64 39 13.03	−19.701	+ 29
430	†[ι Leonis]	4.03	F 5	11 20 50.979	+3.1279	+113	+10 51 16.04	−19.830	− 79
431	[γ Crateris]	4.14	A 5	11 21 55.877	+2.9972	− 69	−17 21 35.05	−19.770	− 2
432	[58 Ursae maj.]	5.88	F 8	11 27 19.920	+3.2478	− 53	+43 29 50.22	−19.765	+ 76
433	λ Draconis	4.06	M o	11 27 55.455	+3.5676	− 78	+69 39 24.95	−19.868	− 20
434	ξ Hydrae	3.72	G 5	11 30 5.707	+2.9505	−160	−31 31 51.16	−19.911	− 38
436	λ Centauri	3.34	B 9	11 33 2.931	+2.7644	− 53	−62 41 35.25	−19.910	− 5
435	[C² Centauri]	5.42	F o	11 33 3.508	+2.9062	+ 28	−47 18 51.43	−19.956	− 51
437	υ Leonis	4.47	K o	11 33 55.607	+3.0719	+ 2	− 0 29 52.24	−19.875	+ 39
438	[π Chamael.]	5.74	F o	11 34 48.787	+2.4722	−318	−75 34 10.58	−19.915	+ 7
439	[o Hydrae]	4.88	B 8	11 37 16.638	+2.9796	− 30	−34 25 2.75	−19.942	+ 3

Nr. 400. Doppelstern, Größe der Komponenten: 4.5 und 5.0.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
440	3 Draconis	5.48	K o	11 39 11.930	+3.3507	— 83	+67 4 17.58	—19.926	+ 34
442	[λ Muscae]	3.80	A 5	11 42 48.581	+2.8294	—148	—66 24 5.57	—19.957	+ 30
441	χ Ursae maj.	3.85	K o	11 42 56.510	+3.1699	—139	+48 6 23.83	—19.965	+ 23
443	[65 G. Centauri]	4.22	G o	11 43 38.821	+2.8984	— 42	—60 51 0.80	—20.011	— 19
444	β Leonis	2.23	A 2	11 46 3.066	+3.0604	—343	+14 54 6.88	—20.125	—119
445	β Virginis	3.80	F 8	11 47 37.259	+3.1251	+494	+ 2 5 50.18	—20.289	—275
446	[*B* Centauri]	4.71	K o	11 48 11.172	+2.9960	— 88	—44 50 42.99	—20.046	— 29
447	γ Ursae maj.	2.54	A o	11 50 44.152	+3.1578	+104	+54 1 22.16	—20.021	+ 6
448	†[ε Chamael. *m*]	5.05	B 9	11 56 40.010	+2.9694	—139	—77 53 35.47	—20.042	— 1
449	[88 G. Centauri]	5.28	F o	12 0 35.739	+3.1056	+292	—42 6 13.17	—20.163	—120
450	ο Virginis	4.24	G 5	12 2 12.203	+3.0562	—149	+ 9 3 38.40	—19.997	+ 45
451	[Grb 1852 Caml]	5.96	K o	12 2 16.766	+3.0579	+439	+77 14 7.95	—20.142	—100
452	δ Centauri	2.88	B 3 p	12 5 17.464	+3.1073	— 33	—50 23 37.76	—20.048	— 10
453	ε Corvi	3.21	K o	12 7 5.153	+3.0852	— 49	—22 17 29.98	—20.024	+ 10
454	Br 1634 Caml	5.12	A 5	12 9 27.489	+2.8167	+ 22	+77 56 38.31	—20.007	+ 19
455	[δ Crucis]	3.08	B 3	12 11 59.953	+3.1828	— 44	—58 25 14.39	—20.022	— 6
456	δ Ursae maj.	3.44	A 2	12 12 30.841	+2.9716	+125	+57 21 37.00	—20.010	+ 3
457	[γ Corvi]	2.78	B 8	12 12 46.077	+3.0851	—111	—17 12 52.01	—19.996	+ 16
458	[2 Can. ven.]	5.80	K 5	12 13 10.408	+3.0077	+ 14	+40 59 18.43	—20.049	— 39
459	β Chamael.	4.38	B 5	12 14 50.557	+3.5054	—133	—78 59 4.86	—19.985	+ 16
460	η Virginis	4.00	A o	12 16 53.136	+3.0695	— 42	— 0 20 20.58	—20.011	— 22
461	[6 Can. ven.]	5.22	K o	12 22 56.746	+2.9565	— 70	+39 20 44.54	—19.982	— 40
462	α Crucis *m*	1.58 2.09	B 1	12 23 18.333	+3.3332	— 39	—62 46 20.89	—19.952	— 12
463	[323 G. Hydr.]	5.68	A o	12 23 44.728	+3.1606	— 6	—32 30 11.14	—19.966	— 30
464	[σ Centauri]	4.16	B 3	12 24 50.335	+3.2425	— 25	—49 54 14.56	—19.946	— 21
466	20 Comae	5.72	A 2	12 26 45.447	+3.0144	+ 17	+21 13 21.47	—19.941	— 34
465	δ Corvi	3.11	A o	12 26 48.446	+3.1039	—146	—16 11 13.75	—20.049	—143
467	[74 Ursae maj.]	5.44	A 5	12 27 12.411	+2.8036	— 87	+58 43 48.59	—19.814	+ 88
468	[γ Crucis]	1.61	M 3	12 27 52.791	+3.3249	+ 38	—56 46 58.69	—20.158	—264
469	[γ Muscae]	4.04	B 5	12 28 54.999	+3.5763	— 92	—71 48 26.03	—19.890	— 6
470	β Can. ven.	4.32	G o	12 30 56.650	+2.8498	—631	+41 40 40.25	—19.573	+287
472	κ Draconis	3.88	B 5 p	12 30 58.488	+2.5634	—118	+70 6 47.60	—19.852	+ 8
471	β Corvi	2.84	G 5	12 31 16.984	+3.1511	+ 4	—23 4 14.41	—19.914	— 57
473	24 Comae *sq*	5.18	K o	12 32 10.227	+3.0094	— 4	+18 42 5.83	—19.826	+ 20
474	α Muscae	2.94	B 3	12 33 38.547	+3.5714	— 64	—68 48 38.15	—19.840	— 13
475	[χ Virginis]	4.78	K o	12 36 11.880	+3.0963	— 52	— 7 40 16.19	—19.826	— 33
476	†γ Centauri *m*	2.38	A o	12 38 15.117	+3.3063	—192	—48 38 9.29	—19.771	— 6
477	†[γ Virg. *m*]	3.65 3.68	F o F o	12 38 40.095	+3.0398	—378	— 1 7 33.87	—19.750	+ 8
478	76 Ursae maj.	5.92	A o	12 38 59.646	+2.6226	— 56	+63 2 11.98	—19.775	— 22
479	[330 G. Hydr.]	5.73	K 2	12 40 51.442	+3.1965	— 27	—28 0 1.34	—19.763	— 38

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
480	†[β Muscae *m*]	3.26	B 3	12 42 38.408	+3.6739	− 51	−67 47 7.61	−19.719	− 22
481	β Crucis	1.50	B 1	12 44 15.504	+3.5019	− 47	−59 21 59.21	−19.684	− 14
482	150 G. Centauri	4.34	A 5	12 50 9.616	+3.3213	+ 58	−39 51 29.90	−19.590	− 25
483	ε Ursae maj.	1.68	A o p	12 51 26.337	+2.6408	+134	+56 16 47.18	−19.549	− 9
484	δ Virginis	3.66	M o	12 52 37.787	+3.0219	−314	+ 3 43 3.72	−19.574	− 57
486	8 Draconis	5.27	F o	12 53 7.946	+2.3897	− 15	+65 45 29.41	−19.543	− 36
485	α Can. ven. *sq*	2.90	A o p	12 53 16.224	+2.8069	−201	+38 38 11.77	−19.453	+ 50
487	[δ Muscae]	3.63	K 2	12 58 10.903	+4.1185	+570	−71 13 52.28	−19.431	− 31
488	ε Virginis	2.95	K o	12 59 14.336	+2.9864	−186	+11 16 33.12	−19.358	+ 19
489	[ξ² Centauri]	4.40	B 3	13 3 27.222	+3.4992	− 32	−49 35 26.23	−19.290	− 11
490	ϑ Virginis	4.44	A o	13 6 53.516	+3.1060	− 23	− 5 13 28.02	−19.230	− 35
491	[17 Can. ven.]	6.04	F o	13 7 20.762	+2.7553	− 64	+38 48 43.31	−19.146	+ 38
492	β Comae	4.32	G o	13 9 7.252	+2.8000	−604	+28 10 36.20	−18.261	+877
493	[η Muscae]	4.95	B 8	13 11 13.412	+4.0586	− 57	−67 34 56.94	−19.098	− 16
494	[20 Can. ven.]	4.66	F o	13 14 53.947	+2.6907	−110	+40 52 57.93	−18.964	+ 18
495	γ Hydrae	3.33	G 5	13 15 42.532	+3.2613	+ 53	−22 51 38.92	−19.007	− 49
496	ι Centauri	2.91	A 2	13 17 16.326	+3.3711	−281	−36 24 5.78	−19.001	− 87
497	ζ Urs. maj. *pr*	2.40	A 2 p	13 21 33.175	+2.4164	+140	+55 13 58.79	−18.812	− 25
498	α Virginis	1.21	B 2	13 22 4.863	+3.1603	− 26	−10 51 14.22	−18.804	− 33
499	Grb 2001 UMin	6.07	K 5	13 24 37.596	+1.5289	+ 39	+72 41 51.07	−18.705	− 13
500	69 H. Urs. maj.	5.41	A o	13 26 17.295	+2.2024	−110	+60 15 0.15	−18.606	+ 33
501	ζ Virginis	3.44	A 2	13 31 41.047	+3.0568	−190	− 0 17 41.81	−18.424	+ 36
502	17 H. Can. ven.	4.96	F o	13 32 9.808	+2.6788	+ 68	+37 29 2.79	−18.455	− 12
503	[49 G. Chamael.]	6.44	A o	13 34 5.853	+5.1162	− 35	−75 23 1.89	−18.390	− 15
505	[Grb 2029 UMin]	5.67	K o	13 35 45.680	+1.4397	− 89	+71 32 31.71	−18.324	− 5
504	ε Centauri	2.56	B 1	13 36 8.123	+3.7978	− 22	−53 10 1.35	−18.319	− 14
506	[1 Centauri]	4.36	F 5	13 42 19.637	+3.4080	−363	−32 44 45.86	−18.227	−150
507	τ Bootis	4.51	F 5	13 44 27.449	+2.8510	−338	+17 45 0.43	−17.962	+ 34
509	η Ursae maj.	1.91	B 3	13 45 13.033	+2.3646	−126	+49 36 25.91	−17.981	− 14
508	[μ Centauri]	3.32	B 2 p	13 46 3.131	+3.6119	− 19	−42 10 49.92	−17.958	− 24
510	89 Virginis	5.11	K o	13 46 39.630	+3.2592	− 70	−17 50 27.77	−17.953	− 43
511	[10 Draconis]	4.77	M o	13 49 42.453	+1.7519	− 4	+65 0 51.12	−17.799	− 9
512	ζ Centauri	3.06	B 2 p	13 51 50.832	+3.7397	− 55	−46 59 55.12	−17.744	− 42
513	η Bootis	2.80	G o	13 51 52.466	+2.8567	− 44	+18 41 33.82	−18.064	−362
514	[294 G. Cent.]	4.68	K o	13 53 21.342	+4.3353	− 49	−63 23 54.16	−17.670	− 31
515	[47 Hydrae]	5.17	B 8	13 55 12.145	+3.3659	− 32	−24 41 5.87	−17.591	− 28
517	11 Bootis	6.12	A 3	13 58 29.924	+2.7205	− 63	+27 40 14.96	−17.410	+ 12
516	τ Virginis	4.34	A 2	13 58 38.463	+3.0531	+ 11	+ 1 49 45.37	−17.440	− 24
518	β Centauri	0.86	B 1	13 59 38.425	+4.2292	− 25	−60 5 21.48	−17.392	− 20
521	α Draconis	3.64	A o p	14 2 47.344	+1.6239	− 89	+64 39 26.43	−17.221	+ 13

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.ˢ0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
519	[π Hydrae]	3.48	K 0	14 3 0.297	+3.4158	+ 34	−26 23 56.31	−17.368	− 144
520	ϑ Centauri	2.26	K 0	14 3 12.102	+3.5291	− 427	−36 4 50.04	−17.737	− 522
522	12 *d* Bootis	4.82	F 5	14 7 42.441	+2.7362	− 18	+25 22 13.42	−17.074	− 64
524	4 Ursae min.	5.00	K 0	14 9 2.683	−0.2430	− 108	+77 49 28.96	−16.921	+ 28
523	κ Virginis	4.31	K 0	14 9 44.648	+3.2000	+ 5	− 9 59 59.97	−16.780	+ 135
525	ι Virginis	4.16	F 5	14 12 55.022	+3.1458	− 7	− 5 43 11.32	−17.192	− 428
526	α Bootis	0.24	K 0	14 12 58.134	+2.7363	− 776	+19 29 19.75	−18.760	−1997
528	[ι Bootis]	4.78	A 5	14 14 4.560	+2.1245	− 163	+51 38 19.56	−16.620	+ 89
527	λ Bootis	4.26	A 0	14 14 8.453	+2.2809	− 182	+46 21 30.81	−16.548	+ 158
529	[υ Centauri]	4.41	B 5	14 16 11.202	+4.1852	− 22	−56 6 56.82	−16.620	− 14
530	[10 G. Circini]	5.71	A 2 p	14 20 10.827	+4.9638	− 23	−67 55 42.11	−16.421	− 14
531	ϑ Bootis	4.06	F 8	14 23 11.237	+2.0422	− 261	+52 7 22.12	−16.657	− 401
532	[52 Hydrae]	5.00	B 8	14 24 42.646	+3.5127	− 18	−29 13 39.04	−16.203	− 26
533	[φ Virginis]	4.97	K 0	14 25 9.546	+3.0911	− 92	− 1 57 51.90	−16.158	− 4
534	ρ Bootis	3.78	K 0	14 29 17.178	+2.5855	− 79	+30 37 46.48	−15.821	+ 117
535	γ Bootis	3.00	F 0	14 29 42.101	+2.4158	− 98	+38 33 55.95	−15.767	+ 149
536	[Grb 2125 Drac]	6.18	F 0	14 30 6.524	+1.6281	− 72	+60 29 6.02	−15.881	+ 14
537	η Centauri	2.65	B 3 p + A 2 p	14 31 45.027	+3.8074	− 30	−41 53 59.25	−15.841	− 35
538	*α Centauri	1.70 0.33	K 5 G 0	14 35 34.618	+4.0738	−4883	−60 35 35.40	−14.887	+ 711
540	[33 Bootis]	5.39	A 0	14 36 38.430	+2.2325	− 68	+44 39 30.46	−15.560	− 20
539	[α Circini]	3.41	F 0	14 37 42.749	+4.8411	− 295	−64 43 11.04	−15.716	− 237
541	[α Lupi]	2.89	B 2	14 37 59.629	+3.9876	− 16	−47 8 10.02	−15.483	− 19
543	†ζ Bootis *m*	4.83 4.43	A 2	14 38 19.758	+2.8647	+ 36	+13 58 49.55	−15.466	− 20
545	μ Virginis	3.95	F 5	14 39 56.828	+3.1615	+ 71	− 5 24 9.98	−15.677	− 322
544	[371 G. Centauri]	4.13	K 0	14 40 2.420	+3.6678	− 52	−34 55 14.78	−15.536	− 186
542	α Apodis	3.81	K 5	14 40 26.020	+7.4210	− 8	−78 47 47.88	−15.346	− 21
546	[30 G. Lupi]	5.20	K 0	14 42 52.794	+4.1921	− 24	−52 8 6.32	−15.271	− 83
547	109 Virginis	3.76	A 0	14 43 15.792	+3.0331	− 74	+ 2 8 25.58	−15.199	− 31
548	α² Librae	2.90	A 3	14 47 36.578	+3.3184	− 73	−15 47 51.87	−14.987	− 71
549	Grb 2164 Drac	5.67	K 2	14 49 56.322	+1.5223	− 167	+59 31 59.36	−14.646	+ 134
550	β Ursae min.	2.24	K 5	14 50 51.238	−0.1806	− 84	+74 23 48.00	−14.718	+ 9
551	Pi XIV 221 Boot	5.77	A 0	14 53 26.011	+2.8317	− 10	+14 41 1.34	−14.576	− 4
552	β Lupi	2.81	B 2 p	14 54 39.407	+3.9268	− 37	−42 53 51.20	−14.538	− 41
553	[κ Centauri]	3.35	B 3	14 55 18.789	+3.9012	− 15	−41 52 7.47	−14.486	− 28
554	[2 H. Urs. min.]	4.86	M 3	14 56 38.220	+0.9521	− 138	+66 10 1.27	−14.353	+ 26
555	β Bootis	3.63	G 5	14 59 43.334	+2.2596	− 40	+40 37 20.65	−14.222	− 33
556	σ Librae	3.41	M 3	15 0 36.640	+3.5107	− 53	−25 3 4.90	−14.181	− 48
557	ψ Bootis	4.67	K 0	15 1 54.958	+2.5707	− 133	+27 10 36.17	−14.061	− 9
558	ζ Lupi	3.50	K 0	15 8 1.954	+4.3068	− 121	−51 52 34.21	−13.732	− 67
559	[ι Librae]	4.66	A 0 p	15 8 51.163	+3.4191	− 27	−19 34 10.93	−13.655	− 42

Nr. 538. Ort des Schwerpunktes. Die Reduktion auf den Ort des helleren Sternes beträgt nach den Elementen von Finsen, Union Observ. Circular 68, 1926:

1941.0 $\Delta\alpha = +0.^{s}057$ $\Delta\delta = -2.''73$
1942.0 $= +0.023$ $= -3.06$

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
562	[3 Serpentis]	5.44	K 0	15 12 15.206	+2.9820	− 14	+ 5 9 26.06	−13.392	+ 1
561	[β Circini]	4.16	A 3	15 12 52.610	+4.6922	−126	−58 34 57.13	−13.490	− 138
563	δ Bootis	3.54	K 0	15 13 7.351	+2.4187	+ 66	+33 32 2.11	−13.455	− 118
560	γ Triang. austr.	3.06	A 0	15 13 22.233	+5.5930	−105	−68 27 48.69	−13.346	− 27
564	β Librae	2.74	B 8	15 13 49.674	+3.2280	− 66	− 9 9 59.24	−13.313	− 23
565	1 H. Urs. min.	5.23	G 0	15 13 57.045	+0.6863	+371	+67 34 13.85	−13.675	− 391
566	φ¹ Lupi	3.59	K 5	15 18 3.227	+3.8051	− 79	−36 2 55.41	−13.098	− 87
569	γ Ursae min.	3.14	A 2	15 20 48.221	−0.0992	− 48	+72 2 38.31	−12.811	+ 19
568	μ Bootis *pr*	4.47 6.66	F 0 K 0	15 22 15.602	+2.2664	−124	+37 34 59.21	−12.647	+ 83
570	[τ¹ Serpentis]	5.46	M 0	15 23 3.070	+2.7823	− 12	+15 38 3.55	−12.690	− 14
571	ι Draconis	3.47	K 0	15 23 36.742	+1.3339	− 16	+59 10 19.73	−12.626	+ 13
567	[κ¹ Apodis]	5.65	B 5 p	15 25 2.306	+6.5250	+ 15	−73 11 15.12	−12.573	− 34
572	β Coron. bor.	3.72	F 0 p	15 25 23.686	+2.4736	−138	+29 18 29.01	−12.435	+ 82
573	ν¹ Bootis	5.15	K 5	15 28 48.492	+2.1548	+ 7	+41 1 59.93	−12.290	− 7
576	[ϑ Coron. bor.]	4.17	B 5	15 30 32.923	+2.4190	− 19	+31 33 25.81	−12.180	− 18
575	†γ Lupi *m*	2.95	B 3	15 31 12.002	+3.9962	− 13	−40 58 11.73	−12.146	− 30
574	[ε Triang. austr.]	4.11	K 0	15 31 17.700	+5.4830	+ 44	−66 7 14.95	−12.177	− 69
578	α Coron. bor.	2.31	A 0	15 32 11.291	+2.5401	+ 90	+26 54 43.89	−12.139	− 91
577	γ Librae	4.02	K 0	15 32 13.268	+3.3556	+ 43	−14 35 39.02	−12.044	+ 1
579	[υ Librae]	3.78	K 2	15 33 26.186	+3.6415	− 4	−27 56 27.92	−11.962	− 2
580	[φ Bootis]	5.41	G 5	15 35 42.354	+2.1545	+ 52	+40 32 40.42	−11.745	+ 56
581	†[γ Coron. bor.]	3.93	A 0	15 40 15.788	+2.5194	− 80	+26 28 53.12	−11.434	+ 42
582	α Serpentis	2.75	K 0	15 41 21.561	+2.9550	+ 92	+ 6 36 35.97	−11.352	+ 45
583	β Serpentis	3.74	A 2	15 43 27.755	+2.7690	+ 48	+15 36 18.90	−11.293	− 48
587	[12 H. Dracon.]	5.13	A 2	15 45 45.597	+0.9131	+ 48	+62 46 53.18	−11.140	− 61
584	κ Serpentis	4.28	K 5	15 46 4.919	+2.7006	− 34	+18 19 21.42	−11.144	− 89
590	ζ Ursae min.	4.34	A 2	15 46 7.158	−2.1544	+ 52	+77 58 36.70	−11.059	− 4
585	μ Serpentis	3.63	A 0	15 46 32.275	+3.1308	− 58	− 3 15 3.71	−11.050	− 28
586	[χ Lupi]	4.11	B 9	15 47 12.143	+3.8110	− 8	−33 26 56.47	−11.005	− 32
588	ε Serpentis	3.75	A 2	15 47 52.333	+2.9904	+ 85	+ 4 39 14.53	−10.861	+ 63
589	β Triang. austr.	3.04	F 0	15 49 55.402	+5.2807	−282	−63 15 2.22	−11.165	− 393
591	[γ Serpentis]	3.86	F 5	15 53 43.526	+2.7711	+212	+15 51 10.49	−11.778	−1286
593	ε Coron. bor.	4.22	K 0	15 55 8.568	+2.4836	− 61	+27 2 51.28	−10.450	− 64
592	[π Scorpii]	3.00	B 2	15 55 16.635	+3.6288	− 6	−25 56 44.64	−10.400	− 25
595	[Grb 2296 Drac]	4.96	A 5	15 56 23.173	+1.4223	−185	+54 54 56.76	−10.187	+ 106
594	δ Scorpii	2.54	B 0	15 56 50.396	+3.5471	− 5	−22 27 19.15	−10.285	− 27
598	ϑ Draconis	4.11	F 8	16 0 46.723	+1.1232	−413	+58 43 20.23	− 9.626	+ 336
597	β Scorpii *pr*	2.90 5.06	B 1	16 2 0.113	+3.4881	− 2	−19 38 43.72	− 9.889	− 22
596	[δ Normae]	4.84	A 3 p	16 2 18.733	+4.2381	+ 4	−45 0 53.43	− 9.813	+ 31
599	[ϑ Lupi]	4.33	B 3	16 2 42.640	+3.9381	− 17	−36 38 36.15	− 9.849	− 36

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ' "	"	
601	[φ Herculis]	4.26	B 9 p	16 6 54.496	+1.8899	— 28	+45 5 19.25	—9.458	+ 35
600	[κ Normae]	5.09	K o	16 8 48.766	+4.7281	— 11	—54 28 47.40	—9.370	— 26
602	[δ Triang. austr.]	4.03	G o	16 10 2.968	+5.4558	+ 10	—63 32 14.04	—9.262	— 15
603	δ Ophiuchi	3.03	M o	16 11 15.033	+3.1437	— 31	— 3 32 37.91	—9.301	—146
606	19 Ursae min.	5.51	B 8	16 12 28.597	—1.7176	— 15	+76 1 36.88	—9.050	+ 13
605	ε Ophiuchi	3.34	K o	16 15 11.779	+3.1740	+ 55	— 4 33 0.42	—8.808	+ 39
604	γ² Normae	4.14	K o	16 15 24.915	+4.4864	—170	—50 0 45.88	—8.883	— 54
607	[σ Scorpii]	3.08	B 1	16 17 35.841	+3.6460	— 7	—25 27 10.31	—8.682	— 24
608	τ Herculis	3.91	B 5	16 17 57.895	+1.8032	— 12	+46 27 10.83	—8.593	+ 37
612	[η Ursae min.]	5.04	F o	16 19 12.081	—1.7598	—229	+75 53 31.28	—8.285	+250
609	γ Herculis	3.79	F o	16 19 18.915	+2.6463	— 35	+19 17 25.59	—8.480	+ 44
610	[ζ Triang. austr.]	4.93	G o	16 22 5.828	+6.4470	+403	—69 57 15.09	—8.195	+104
613	[ω Herculis]	4.53	A o p	16 22 41.437	+2.7685	+ 27	+14 10 4.06	—8.314	— 59
614	[Grb 2343 Drac]	5.66	A 2	16 23 7.691	+1.3120	+ 13	+55 20 18.93	—8.204	+ 17
615	†η Draconis	2.89	G 5	16 23 11.169	+0.8117	— 30	+61 38 50.47	—8.158	+ 58
611	γ Apodis	3.90	K o	16 24 19.997	+9.1849	—408	—78 46 7.03	—8.186	— 67
616	α Scorpii	1.22	M o + A 3	16 25 47.135	+3.6784	— 2	—26 18 9.88	—8.029	— 23
618	β Herculis	2.81	K o	16 27 40.893	+2.5788	— 72	+21 37 0.91	—7.871	— 16
617	†[λ Ophiuchi *m*]	3.85	A o	16 27 56.106	+3.0257	— 21	+ 2 6 42.11	—7.909	— 74
619	*A* Draconis	4.98	B 8 p	16 28 5.240	—0.1194	— 53	+68 53 44.99	—7.790	+ 34
621	σ Herculis	4.25	A o	16 32 11.923	+1.9339	— 12	+42 33 27.99	—7.448	+ 43
620	[τ Scorpii]	2.91	B o	16 32 12.290	+3.7343	— 5	—28 5 43.15	—7.514	— 25
623	[Grb 2373 UMin]	6.39	G 5	16 33 8.918	—2.5887	—325	+77 33 54.44	—7.143	+274
622	ζ Ophiuchi	2.70	B o	16 33 54.406	+3.3032	+ 8	—10 26 56.99	—7.327	+ 24
624	[Br 2114 Ophi]	5.04	K o	16 38 9.406	+3.4694	— 16	—17 37 46.63	—7.007	— 3
626	η Herculis	3.61	K o	16 40 52.275	+2.0566	+ 29	+39 2 0.50	—6.865	— 83
625	α Triang. austr.	1.88	K 2	16 42 23.900	+6.3486	+ 51	—68 55 20.04	—6.686	— 33
627	Grb 2377 Drac	4.88	F o	16 44 10.412	+1.1373	+ 17	+56 53 12.33	—6.445	+ 65
628	ε Scorpii	2.36	K o	16 46 20.235	+3.8854	—490	—34 11 16.39	—6.581	—252
629	49 Herculis	6.41	A o p	16 49 23.545	+2.7312	+ 10	+15 4 18.72	—6.073	+ 3
630	†ζ² Scorpii	3.75	K 5	16 50 25.542	+4.2206	—113	—42 15 43.96	—6.223	—235
631	ζ Arae	3.06	K 5	16 53 43.731	+4.9629	— 20	—55 53 57.05	—5.744	— 33
632	[ε¹ Arae]	4.15	K 2	16 54 52.400	+4.7798	0	—53 4 18.81	—5.599	+ 17
633	κ Ophiuchi	3.42	K o	16 54 52.406	+2.8394	—199	+ 9 27 55.30	—5.626	— 8
634	ε Herculis	3.92	A o	16 58 1.808	+2.2951	— 40	+31 0 43.78	—5.324	+ 29
635	[60 Herculis]	4.91	A 3	17 2 38.405	+2.7818	+ 33	+12 49 13.73	—4.971	— 9
636	[Grb 2415 Herc]	6.27	A 2	17 5 51.112	+1.9566	— 34	+40 35 31.79	—4.723	— 33
637	†η Ophiuchi *m*	2.63	A 2	17 6 59.493	+3.4402	+ 26	—15 39 12.69	—4.498	+ 94
638	[η Scorpii]	3.44	F 2	17 7 55.335	+4.2963	+ 22	—43 9 48.05	—4.795	—283
639	ζ Draconis	3.22	B 5	17 8 36.616	+0.1729	— 32	+65 47 13.93	—4.435	+ 21

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0ˢ0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0".001
		m		h m s	s		° ′ ″	″	
640	†α Herculis *pr*	3.48 5.39	M 3	17 11 57.323	+2.7354	− 8	+14 27 22.44	−4.132	+ 37
641	δ Herculis	3.16	A 2	17 12 36.376	+2.4640	− 18	+24 54 27.00	−4.272	−158
643	π Herculis	3.36	K 5	17 12 59.412	+2.0893	− 25	+36 52 28.52	−4.077	+ 4
642	[ι Apodis]	5.60	B 8	17 15 30.291	+6.6893	+ 12	−70 3 51.46	−3.876	− 14
644	ϑ Ophiuchi	3.37	B 3	17 18 22.994	+3.6842	− 2	−24 56 32.67	−3.638	− 21
645	β Arae	2.80	K 2	17 20 23.361	+4.9861	− 7	−55 28 35.17	−3.468	− 25
647	[27 H. Ophiuchi]	4.61	F 0	17 23 29.902	+3.1830	− 64	− 5 2 9.66	−3.220	− 44
646	[45 Ophiuchi]	4.37	F 5	17 23 35.028	+3.8307	+ 15	−29 48 55.74	−3.309	−141
650	[77 Herculis]	5.81	A 2	17 25 10.256	+1.5898	− 4	+48 18 31.41	−3.040	− 7
648	δ Arae	3.79	B 8	17 25 45.996	+5.4151	− 66	−60 38 13.29	−3.067	− 88
649	[υ Scorpii]	2.80	B 3	17 26 44.944	+4.0786	0	−37 15 2.38	−2.926	− 31
651	α Arae	2.97	B 3 p	17 27 16.598	+4.6372	− 28	−49 49 53.65	−2.921	− 72
653	β Draconis	2.99	G 0	17 29 5.828	+1.3551	− 21	+52 20 39.72	−2.681	+ 13
652	λ Scorpii	1.71	B 2	17 29 35.942	+4.0735	0	−37 3 45.65	−2.676	− 28
655	[ν¹ Draconis]	4.98	A 5	17 31 0.672	+1.1807	+165	+55 13 26.22	−2.474	+ 54
657	[ν² Draconis]	4.95	A 5	17 31 6.096	+1.1818	+168	+55 12 44.95	−2.467	+ 52
656	α Ophiuchi	2.14	A 5	17 32 11.638	+2.7846	+ 80	+12 36 5.62	−2.650	−226
659	[27 Draconis]	5.21	K 0	17 32 11.714	−0.2414	− 29	+68 10 21.84	−2.292	+134
654	ϑ Scorpii	2.04	F 0	17 33 4.561	+4.3104	+ 15	−42 57 44.15	−2.343	+ 3
658	ξ Serpentis	3.64	A 5	17 34 12.355	+3.4348	− 32	−15 21 47.29	−2.310	− 61
664	ω Draconis	4.87	F 5	17 37 17.523	−0.3521	+ 3	+68 47 7.50	−1.660	+323
663	ι Herculis	3.79	B 3	17 37 47.831	+1.6932	− 9	+46 2 12.61	−1.933	+ 4
660	[ϰ Scorpii]	2.51	B 2	17 38 24.189	+4.1499	− 5	−39 0 5.72	−1.911	− 28
662	[μ Arae]	5.26	G 5	17 39 27.370	+4.7625	− 21	−51 48 17.26	−1.979	−188
661	η Pavonis	3.58	K 0	17 39 56.268	+5.8884	− 5	−64 41 53.93	−1.798	− 50
665	β Ophiuchi	2.94	K 0	17 40 33.370	+2.9634	− 28	+ 4 35 25.50	−1.537	+159
670	ψ Draconis *pr*	4.90 6.07	F 5	17 42 58.916	−1.0680	+ 38	+72 10 42.06	−1.754	−267
666	[ι¹ Scorpii]	3.14	F 5 p	17 43 27.331	+4.1959	+ 2	−40 6 22.00	−1.447	− 4
667	μ Herculis	3.48	G 5	17 44 8.845	+2.3478	−239	+27 45 14.63	−2.127	−744
668	[γ Ophiuchi]	3.74	A 0	17 44 55.953	+3.0080	− 16	+ 2 43 40.73	−1.386	− 71
669	[*G* Scorpii]	3.25	K 2	17 45 50.431	+4.0842	+ 51	−37 1 34.99	−1.200	+ 34
675	35 Draconis	5.04	F 5	17 52 5.154	−2.6872	+111	+76 58 19.24	−0.448	+246
671	ξ Draconis	3.90	K 0	17 52 30.383	+1.0369	+110	+56 52 52.77	−0.579	+ 76
672	ϑ Herculis	3.99	K 0	17 54 13.670	+2.0570	− 1	+37 15 26.07	−0.497	+ 6
676	γ Draconis	2.42	K 5	17 55 14.047	+1.3926	− 13	+51 29 42.40	−0.436	− 20
674	[ξ Herculis]	3.82	K 0	17 55 28.230	+2.3311	+ 62	+29 15 10.84	−0.413	− 19
673	ν Ophiuchi	3.50	K 0	17 55 46.608	+3.3025	− 6	− 9 46 4.99	−0.486	−120
677	67 Ophiuchi	3.92	B 5 p	17 57 41.299	+3.0043	− 4	+ 2 55 58.28	−0.210	− 10
679	γ Sagittarii	3.07	K 0	18 2 0.992	+3.8538	− 41	−30 25 35.97	−0.005	−184
678	[66 G. Apodis]	5.69	K 5	18 3 0.560	+8.3951	+ 43	−75 53 48.18	−0.009	−279

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
680	72 Ophiuchi	3.73	A 3	18 4 33.062	+2.8440	− 43	+ 9 33 14.47	+0.482	+ 82
681	o Herculis	3.83	A o	18 5 14.358	+2.3398	− 3	+28 45 11.42	+0.468	+ 9
682	μ Sagittarii	4.01	B 8 p	18 10 14.029	+3.5876	+ 1	−21 4 33.86	+0.897	− 1
685	[36 Draconis]	5.03	F 5	18 13 33.333	+0.3449	+ 529	+64 22 37.43	+1.216	+ 31
683	[η Sagittarii]	3.16	M 3	18 13 38.018	+4.0593	− 109	−36 46 52.78	+1.031	−163
684	[Grb 2533 Lyra]	5.42	B 5	18 13 48.548	+1.8656	− 7	+42 8 17.43	+1.204	− 4
687	[δ Sagittarii]	2.84	K o	18 17 12.987	+3.8410	+ 31	−29 51 18.19	+1.478	− 29
686	[ξ Pavonis]	4.25	K 2	18 17 47.410	+5.5285	− 5	−61 31 23.99	+1.563	+ 4
688	η Serpentis	3.42	K o	18 18 15.325	+3.1037	− 372	− 2 54 56.49	+0.900	−697
689	ε Sagittarii	1.95	A o	18 20 15.356	+3.9826	− 23	−34 24 51.97	+1.646	−126
690	109 Herculis	3.92	K o	18 21 10.936	+2.5562	+ 137	+21 44 29.87	+1.610	−242
693	†[φ Draconis *m*]	4.24	A o p	18 21 36.258	−0.8605	− 18	+71 18 24.98	+1.927	+ 41
695	χ Draconis	3.69	F 8	18 22 7.228	−1.0823	+1168	+72 42 28.12	+1.574	−357
691	α Telescopii	3.76	B 3	18 22 35.913	+4.4485	− 17	−46 0 10.51	+1.935	− 42
694	†39 Draconis	4.85	A 2	18 23 2.832	+0.8753	− 55	+58 45 57.78	+2.073	+ 60
692	[λ Sagittarii]	2.94	K o	18 24 19.731	+3.7023	− 33	−25 27 21.83	+1.943	−183
696	[γ Scuti]	4.73	A 3	18 25 50.028	+3.4190	0	−14 36 18.45	+2.254	− 3
697	[ϑ Coron. austr.]	4.69	G 5	18 29 17.381	+4.2839	+ 25	−42 21 25.29	+2.537	− 21
700	[Grb 2655 Drac]	5.84	K o	18 32 36.536	−2.8959	− 12	+77 30 9.01	+2.842	+ 2
699	α Lyrae	0.14	A o	18 34 56.380	+2.0310	+ 170	+38 43 39.53	+3.328	+283
701	[Grb 2640 Drac]	6.00	A 3	18 36 2.132	+0.1874	+ 17	+65 26 8.70	+3.220	+ 82
698	ζ Pavonis	4.10	K o	18 36 9.214	+7.0140	+ 14	−71 28 55.61	+2.993	−160
702	[ε Scuti]	5.09	G 5	18 40 18.412	+3.2671	+ 13	− 8 20 6.48	+3.515	+ 6
703	110 Herculis	4.26	F 5	18 43 7.265	+2.5814	− 12	+20 29 18.78	+3.416	−335
704	λ Pavonis	4.42	B 2	18 46 45.343	+5.5597	− 11	−62 15 28.13	+4.048	− 17
705	*β Lyrae	var.	B 8 p +B 2 p	18 47 54.005	+2.2145	− 2	+33 17 35.02	+4.158	− 2
707	o Draconis	4.78	K o	18 50 19.827	+0.8851	+ 98	+59 18 56.72	+4.392	+ 25
706	σ Sagittarii	2.14	B 3	18 51 36.443	+3.7198	+ 10	−26 22 18.42	+4.423	− 55
709	ϑ Serpent. *pr*	4.50	A 5	18 53 17.135	+2.9822	+ 29	+ 4 7 31.48	+4.657	+ 36
711	**R* Lyrae	var.	M 3	18 53 32.305	+1.8253	+ 17	+43 52 2.85	+4.724	+ 82
708	λ Telescopii	5.03	B 9	18 53 44.807	+4.8007	+ 19	−53 1 4.62	+4.668	+ 8
710	[ξ² Sagittarii]	3.61	K o	18 54 12.607	+3.5786	+ 20	−21 11 9.42	+4.685	− 14
714	[υ Draconis]	4.91	K o	18 55 7.543	−0.7337	+ 95	+71 13 7.58	+4.821	+ 47
713	γ Lyrae	3.30	A o p	18 56 44.100	+2.2437	− 7	+32 36 26.91	+4.914	+ 1
712	[ε Aquilae]	4.21	K o	18 56 56.608	+2.7225	− 39	+14 59 12.47	+4.857	− 74
715	†[ζ Sagittarii *m*]	2.71	A 2	18 58 51.532	+3.8170	− 13	−29 57 58.84	+5.092	− 1
716	ζ Aquilae	3.02	A o	19 2 41.831	+2.7569	− 8	+13 46 27.82	+5.322	− 94
717	λ Aquilae	3.55	B 9	19 3 7.030	+3.1833	− 17	− 4 58 21.19	+5.365	− 87
719	[ι Lyrae]	5.13	B 5	19 5 11.677	+2.1402	− 8	+36 0 23.90	+5.627	0
718	α Coron. austr.	4.12	A 2	19 5 27.616	+4.0819	+ 73	−37 59 53.67	+5.551	− 99

Nr. 705. Größe: Max. 3.4, Min. 4.1. Nr. 711. Größe: Max. 4.0, Min. 4.7, Größe in Harvard 50 = 4.32.

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
720	π Sagittarii	3.02	F 2	19 6 15.338	+3.5677	— 1	—21 7 8.97	+ 5.680	— 37
721	†[60 G. Pavon. *m*]	5.57	A 2	19 11 16.897	+6.0365	+ 7	—66 45 56.81	+ 6.118	— 20
723	δ Draconis	3.24	K o	19 12 32.711	+0.0146	+ 160	+67 33 28.03	+ 6.332	+ 93
722	[43 Sagittarii]	5.03	K o	19 14 11.002	+3.5098	— 9	—19 3 34.66	+ 6.362	— 16
724	ϑ Lyrae	4.46	K o	19 14 19.120	+2.0818	— 8	+38 1 39.35	+ 6.390	+ 2
725	ω Aquilae	5.14	A 5	19 15 2.755	+2.8156	— 4	+11 29 15.68	+ 6.467	+ 18
726	ϰ Cygni	3.98	K o	19 15 44.320	+1.3861	+ 61	+53 15 32.11	+ 6.628	+ 123
729	τ Draconis	4.63	K o	19 16 41.863	—1.1528	— 330	+73 14 47.71	+ 6.694	+ 112
727	[υ Sagittarii]	4.58	B 8 p + F 2 p	19 18 20.905	+3.4355	— 2	—16 4 2.48	+ 6.716	— 6
728	α Sagittarii	4.11	B 8	19 19 48.076	+4.1571	+ 26	—40 43 43.63	+ 6.724	— 118
730	δ Aquilae	3.44	F o	19 22 31.373	+3.0243	+ 167	+ 2 59 44.56	+ 7.148	+ 84
731	[186 G. Sagittar.]	5.68	B 9	19 23 12.875	+3.7917	+ 15	—29 51 41.75	+ 7.076	— 45
734	[Grb 2900 Drac]	6.00	A 2	19 25 17.644	—3.6310	+ 40	+79 29 10.75	+ 7.255	— 31
733	ι Cygni	3.94	A 2	19 28 13.076	+1.5122	+ 19	+51 36 12.03	+ 7.656	+ 129
732	*β Cygni *pr*	3.24	K o + A o	19 28 20.438	+2.4190	— 3	+27 50 4.43	+ 7.533	— 4
735	[ι Telescopii]	5.02	K o	19 30 50.642	+4.4513	— 16	—48 13 42.02	+ 7.707	— 35
736	52 Sagittarii	4.66	B 9	19 33 7.104	+3.6509	+ 51	—25 0 55.72	+ 7.904	— 20
737	[ϰ Aquilae]	5.04	B o	19 33 43.029	+3.2270	0	— 7 9 36.64	+ 7.968	— 4
738	ϑ Cygni	4.64	F 5	19 34 51.488	+1.6078	— 30	+50 5 1.08	+ 8.316	+ 254
740	[15 Cygni]	5.02	K o	19 42 8.829	+2.1632	+ 56	+37 12 38.79	+ 8.676	+ 34
742	†δ Cygni	2.97	A o	19 43 7.799	+1.8749	+ 44	+44 59 9.23	+ 8.767	+ 48
739	[ν Telescopii]	5.52	A 5	19 43 12.639	+4.9010	+ 101	—56 30 23.12	+ 8.598	— 129
741	γ Aquilae	2.80	K 2	19 43 27.237	+2.8518	+ 8	+10 28 5.60	+ 8.749	+ 3
743	δ Sagittae	3.78	M o + A o	19 44 45.349	+2.6747	+ 2	+18 23 14.90	+ 8.859	+ 12
744	[51 Aquilae]	5.55	F o	19 47 32.067	+3.3010	— 19	—10 54 52.89	+ 9.100	+ 35
745	α Aquilae	0.89	A 5	19 47 54.244	+2.9266	+ 360	+ 8 42 40.29	+ 9.481	+ 387
747	†ε Draconis	3.99	K o	19 48 22.894	—0.2012	+ 153	+70 7 4.13	+ 9.169	+ 40
746	*[η Aquilae]	var.	G o p	19 49 28.021	+3.0558	+ 3	+ 0 51 10.29	+ 9.211	— 4
749	β Aquilae	3.90	K o	19 52 24.859	+2.9464	+ 26	+ 6 15 29.08	+ 8.966	— 478
748	ε Pavonis	4.10	A o	19 53 48.305	+6.9505	+ 190	—73 4 8.91	+ 9.422	— 130
750	†ψ Cygni	4.80	A 3	19 54 6.221	+1.5505	— 47	+52 16 53.77	+ 9.544	— 29
751	ϑ^1 Sagittarii	4.39	B 3	19 55 53.958	+3.9048	0	—35 26 14.84	+ 9.687	— 25
752	γ Sagittae	3.71	K 5	19 56 7.917	+2.6675	+ 42	+19 19 50.66	+ 9.757	+ 28
753	[62 Sagittarii]	4.60	M 3	19 59 1.971	+3.6893	+ 27	—27 52 31.51	+ 9.970	+ 20
755	[ξ Telescopii]	4.86	M o	20 2 52.465	+4.5987	— 15	—53 3 5.58	+10.254	+ 12
754	δ Pavonis	3.64	G 5	20 2 57.418	+5.8905	+1973	—66 20 5.53	+ 9.107	—1141
756	ϑ Aquilae	3.37	A o	20 8 15.636	+3.0950	+ 22	— 0 59 52.13	+10.649	+ 6
759	ϰ Cephei	4.40	B 9	20 10 54.695	—2.0107	+ 22	+77 32 4.83	+10.863	+ 28
757	31 o^1 Cygni	3.95	K o + B 8	20 11 46.342	+1.8886	— 3	+46 33 41.70	+10.907	+ 6
758	[33 Cygni]	4.32	A 3	20 12 1.593	+1.3945	+ 72	+56 23 11.82	+11.002	+ 83

Nr. 732. Größe und Spektrum beziehen sich auf die hellere Komponente. Die entsprechenden Werte für die schwächere Komponente sind 5.36 und B 9. Nr. 746. Größe: Max. 3.7, Min. 4.5.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
760	24 Vulpeculae	5.45	K 0	20 14 15.518	+2.5668	+ 9	+24 29 17.78	+11.069	− 14
761	α² Capricorni	3.77	G 5	20 14 46.923	+3.3283	+ 41	−12 43 44.81	+11.127	+ 6
762	[β Capricorni]	3.25	G 0 + A 0	20 17 41.864	+3.3704	+ 26	−14 58 8.80	+11.336	+ 3
763	[κ¹ Sagittarii]	5.64	A 0	20 18 27.497	+4.0746	+ 32	−42 14 13.61	+11.300	− 88
765	γ Cygni	2.32	F 8 p	20 20 6.559	+2.1528	0	+40 4 0.87	+11.507	+ 1
764	α Pavonis	2.12	B 3	20 20 59.531	+4.7495	+ 11	−56 55 33.44	+11.488	− 82
766	†[ρ Capric.]	4.96	F 0	20 25 29.802	+3.4216	− 12	−18 0 36.27	+11.869	− 20
767	ϑ Cephei	4.28	A 5	20 28 35.629	+1.0070	+ 60	+62 47 43.44	+12.094	− 11
768	ε Delphini	3.98	B 5	20 30 23.601	+2.8658	+ 4	+11 6 5.83	+12.213	− 17
770	73 Draconis	5.18	A 2 p	20 32 18.475	−0.7854	+ 10	+74 45 10.01	+12.349	− 11
769	α Indi	3.21	K 0	20 33 25.520	+4.2213	+ 50	−47 29 55.54	+12.512	+ 72
771	†β Delphini *m*	3.72	F 5	20 34 46.883	+2.8129	+ 73	+14 23 19.71	+12.503	− 30
772	[κ Delphini]	5.23	G 5	20 36 15.766	+2.9134	+ 210	+ 9 52 37.91	+12.654	+ 21
773	υ Capricorni	5.33	M 0	20 36 41.576	+3.4151	− 15	−18 20 51.77	+12.645	− 18
774	α Delphini	3.86	B 8	20 36 53.789	+2.7862	+ 41	+15 42 10.15	+12.677	+ 1
777	α Cygni	1.33	A 2 p	20 39 25.141	+2.0448	0	+45 4 7.34	+12.850	+ 5
775	β Pavonis	3.60	A 5	20 39 39.984	+5.4139	− 64	−66 25 1.47	+12.882	+ 18
776	[η Indi]	4.70	F 0	20 39 43.024	+4.4079	+ 172	−52 8 0.03	+12.813	− 54
778	[δ Delphini]	4.53	A 5	20 40 42.202	+2.8006	− 16	+14 51 42.60	+12.892	− 40
779	[ψ Capricorni]	4.26	F 8	20 42 36.318	+3.5522	− 40	−25 29 3.40	+12.905	− 155
780	ε Cygni	2.64	K 0	20 43 49.327	+2.4272	+ 283	+33 44 53.95	+13.469	+ 329
782	[6 H. Cephei]	4.63	G 0	20 43 53.232	+1.4888	− 87	+57 22 2.80	+12.909	− 234
783	η Cephei	3.59	K 0	20 44 5.517	+1.2208	+ 130	+61 36 33.09	+13.978	+ 822
781	ε Aquarii	3.83	A 0	20 44 28.987	+3.2474	+ 20	− 9 42 46.69	+13.152	− 31
784	†λ Cygni *m*	4.47	B 5	20 45 6.504	+2.3365	+ 3	+36 16 22.88	+13.221	− 3
785	β Indi	3.72	K 0	20 50 12.843	+4.6926	+ 23	−58 40 42.04	+13.538	− 19
786	32 Vulpeculae	5.24	K 5	20 52 2.617	+2.5566	− 6	+27 49 56.18	+13.675	+ 2
788	ν Cygni	4.04	A 0	20 54 58.289	+2.2362	+ 5	+40 56 21.24	+13.850	− 9
789	[11 Aquarii]	6.26	G 0	20 57 27.440	+3.1585	+ 26	− 4 57 33.37	+13.885	− 132
787	[α Octantis]	5.24	F 2	20 57 38.574	+7.2932	+ 29	−77 15 4.37	+13.667	− 362
790	ζ Microscopii	5.35	F 0	20 59 12.108	+3.8345	− 25	−38 51 47.33	+14.016	− 109
792	[ξ Cygni]	3.92	K 5	21 2 46.958	+2.1818	+ 4	+43 41 30.12	+14.350	+ 5
791	[*A* Capricorni]	4.60	M 0	21 3 40.807	+3.5092	− 21	−25 14 34.56	+14.357	− 43
793	61 Cygni *pr*	5.57	K 5	21 4 14.935	+2.6871	+3504	+38 27 29.93	+17.693	+3259
794	ν Aquarii	4.52	K 0	21 6 22.894	+3.2678	+ 61	−11 36 42.20	+14.551	− 12
795	Br 2777 Ceph	5.90	B 9	21 6 42.796	−1.1938	+ 60	+77 53 15.39	+14.617	+ 36
798	†[Grb 3415 *m*]	5.65	B 2	21 10 18.102	+1.5272	− 6	+59 44 36.17	+14.794	− 2
797	ζ Cygni	3.40	K 0	21 10 25.379	+2.5529	− 4	+29 59 2.63	+14.751	− 53
796	[23 G. Indi]	5.84	A 5	21 11 33.673	+4.2859	+ 18	−53 30 30.88	+14.860	− 11
799	†[τ Cygni]	3.82	F 0	21 12 26.013	+2.3944	+ 132	+37 47 33.98	+15.359	+ 437

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
800	α Equulei	4.14	F 8 + A 3	21 12 52.448	+2.9987	+ 36	+ 5 0 10.50	+14.865	— 83
801	[ε Microscop.]	4.79	A 0	21 14 21.881	+3.6383	+ 39	—32 25 12.82	+15.013	— 21
802	[ϑ¹ Microscop.]	4.92	A 2 p	21 16 59.592	+3.8384	+ 56	—41 3 36.57	+15.185	— 1
803	α Cephei	2.60	A 5	21 17 10.287	+1.4318	+ 212	+62 20 6.47	+15.246	+ 52
804	1 Pegasi	4.24	K 0	21 19 21.377	+2.7743	+ 72	+19 33 4.25	+15.387	+ 68
805	γ Pavonis	4.30	F 8	21 21 35.517	+4.9688	+ 155	—65 38 5.01	+16.244	+ 799
806	ζ Capricorni	3.86	G 5 p	21 23 18.110	+3.4257	+ 1	—22 40 4.63	+15.566	+ 27
807	[71 Cygni]	5.34	K 0	21 27 16.160	+2.2135	+ 42	+46 16 47.11	+15.864	+ 108
809	β Cephei	3.32	B 1	21 27 54.375	+0.7759	+ 21	+70 18 5.65	+15.803	+ 13
808	β Aquarii	3.07	G 0	21 28 27.227	+3.1581	+ 12	— 5 49 54.11	+15.816	— 4
811	74 Cygni	5.09	A 5	21 34 34.866	+2.4043	— 7	+40 8 52.14	+16.162	+ 19
810	ν Octantis	3.74	K 0	21 34 59.764	+6.6999	+ 185	—77 39 13.76	+15.926	— 240
812	[γ Capricorni]	3.80	F 0 p	21 36 49.458	+3.3240	+ 131	—16 55 47.36	+16.237	— 22
813	[13 H. Cephei]	5.64	O e 5	21 37 7.643	+1.8610	— 7	+57 13 18.12	+16.274	0
817	[11 Cephei]	4.85	K 0	21 41 3.817	+0.8803	+ 235	+71 2 22.55	+16.577	+ 105
815	ε Pegasi	2.54	K 0	21 41 17.237	+2.9462	+ 18	+ 9 36 13.16	+16.489	+ 5
814	[ι Pisc. austr.]	4.35	A 0	21 41 26.262	+3.5747	+ 29	—33 17 45.58	+16.401	— 91
816	†[κ Pegasi *m*]	4.27	F 5	21 41 58.264	+2.7164	+ 23	+25 22 23.10	+16.533	+ 15
818	[λ Capricorni]	5.43	A 0	21 43 21.622	+3.2293	+ 17	—11 38 20.13	+16.582	— 4
819	δ Capricorni	2.98	A 5	21 43 47.191	+3.3113	+ 181	—16 23 45.38	+16.314	— 293
821	π² Cygni	4.26	B 3	21 44 36.624	+2.2161	+ 2	+49 2 9.38	+16.650	+ 2
820	[ο Indi]	5.50	K 2	21 45 49.805	+5.0861	— 44	—69 54 19.09	+16.705	— 3
822	γ Gruis	3.16	B 8	21 50 21.739	+3.6338	+ 85	—37 38 35.60	+16.910	— 13
823	16 Pegasi	5.05	B 3	21 50 22.506	+2.7295	+ 2	+25 38 48.50	+16.926	+ 3
824	[δ Indi]	4.56	F 0	21 53 55.006	+4.0870	+ 63	—55 16 26.76	+17.084	— 3
826	[20 Pegasi]	5.66	F 2	21 58 12.785	+2.9223	+ 35	+12 50 11.79	+17.235	— 46
825	[ε Indi]	4.74	K 5	21 58 51.706	+4.5924	+4809	—57 1 46.32	+14.756	—2553
827	α Aquarii	3.19	G 0	22 2 45.217	+3.0810	+ 10	— 0 36 25.94	+17.475	— 4
830	20 Cephei	5.39	K 5	22 3 12.748	+1.8233	+ 21	+62 29 50.63	+17.561	+ 64
828	ι Aquarii	4.35	B 8	22 3 15.146	+3.2400	+ 26	—14 9 24.13	+17.447	— 53
831	[ι Pegasi]	3.96	F 5	22 4 15.692	+2.7925	+ 215	+25 3 22.55	+17.570	+ 28
829	α Gruis	2.16	B 5	22 4 31.420	+3.7830	+ 123	—47 14 51.19	+17.407	— 147
832	[μ Pisc. austr.]	4.62	A 2	22 4 56.786	+3.5013	+ 64	—33 16 38.32	+17.535	— 37
833	[27 Pegasi]	5.65	K 0	22 6 36.571	+2.6580	— 49	+32 53 0.50	+17.578	— 63
834	ϑ Pegasi	3.70	A 2	22 7 13.361	+3.0259	+ 181	+ 5 54 25.01	+17.703	+ 37
835	π Pegasi	4.38	F 5	22 7 21.819	+2.6641	— 13	+32 53 17.06	+17.655	— 17
837	24 Cephei	4.99	G 5	22 8 40.620	+1.1535	+ 63	+72 3 1.55	+17.739	+ 14
836	ζ Cephei	3.62	K 0	22 8 48.201	+2.0807	+ 14	+57 54 35.81	+17.739	+ 8
838	[λ Pisc. austr.]	5.40	B 9	22 10 58.354	+3.4012	+ 20	—28 3 36.67	+17.819	0
839	[ε Octantis]	5.11	M 3	22 13 32.198	+6.7711	+ 304	—80 44 5.18	+17.886	— 34

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ' "	"	
840	ϑ Aquarii	4.32	K o	22 13 43.276	+3.1657	+ 78	− 8 4 40.03	+17.909	− 19
841	α Tucanae	2.91	K 2	22 14 28.677	+4.1161	− 83	−60 33 16.17	+17.923	− 34
842	γ Aquarii	3.97	A o	22 18 36.536	+3.0984	+ 85	− 1 41 7.01	+18.127	+ 12
843	[31 Pegasi]	4.93	B 3 p	22 18 36.728	+2.9527	+ 2	+11 54 26.66	+18.132	+ 17
844	β Lacertae	4.58	K o	22 21 14.086	+2.3585	− 20	+51 55 58.59	+18.026	−185
845	[ν Gruis]	5.48	K o	22 25 12.093	+3.5177	+ 31	−39 25 51.40	+18.197	−156
846	[δ¹ Gruis]	4.02	G 5	22 25 45.052	+3.5876	+ 24	−43 47 51.61	+18.375	+ 2
847	*[δ Cephei]	var.	verän.	22 26 58.477	+2.2263	+ 11	+58 6 45.82	+18.418	+ 3
848	α Lacertae	3.85	A o	22 28 51.318	+2.4708	+ 139	+49 58 43.39	+18.502	+ 22
849	[υ Aquarii]	5.29	F 5	22 31 28.141	+3.2819	+ 155	−21 0 39.90	+18.424	−143
850	η Aquarii	4.13	B 8	22 32 19.466	+3.0827	+ 60	− 0 25 19.71	+18.545	− 50
851	[31 Cephei]	5.22	F o	22 34 18.634	+1.4815	+ 390	+73 20 12.18	+18.690	+ 31
853	[30 Cephei]	5.21	A 2	22 36 33.084	+2.1268	− 12	+63 16 38.68	+18.710	− 20
852	10 Lacertae	4.91	O e 5	22 36 36.552	+2.6916	− 1	+38 44 33.71	+18.729	− 3
854	[ε Pisc. austr.]	4.22	B 8	22 37 23.768	+3.3189	+ 21	−27 21 6.66	+18.762	+ 6
855	ζ Pegasi	3.61	B 8	22 38 31.071	+2.9920	+ 53	+10 31 22.32	+18.784	− 7
856	β Gruis	2.24	M 3	22 39 9.181	+3.5846	+ 133	−47 11 37.34	+18.807	− 3
857	η Pegasi	3.10	G o	22 40 13.957	+2.8119	+ 9	+29 54 43.95	+18.820	− 22
858	[13 Lacertae]	5.24	K o	22 41 27.292	+2.6748	− 10	+41 30 33.23	+18.889	+ 11
859	λ Pegasi	4.14	K o	22 43 41.160	+2.8894	+ 39	+23 15 16.91	+18.937	− 6
860	ε Gruis	3.69	A 2	22 45 0.057	+3.6264	+ 111	−51 37 39.32	+18.921	− 59
861	[τ Aquarii]	4.21	K 5	22 46 28.166	+3.1764	− 10	−13 54 16.06	+18.990	− 31
862	[μ Pegasi]	3.67	K o	22 47 9.133	+2.8953	+ 106	+24 17 22.69	+19.004	− 36
863	ι Cephei	3.68	K o	22 47 34.376	+2.1339	− 113	+65 53 23.42	+18.933	−118
864	λ Aquarii	3.84	M o	22 49 32.215	+3.1297	+ 5	− 7 53 38.52	+19.144	+ 40
865	ρ Indi	6.14	M o	22 50 35.055	+4.1838	− 73	−70 23 21.93	+19.206	+ 74
866	δ Aquarii	3.51	A 2	22 51 31.252	+3.1840	− 29	−16 8 6.16	+19.135	− 20
867	α Pisc. austr.	1.29	A 3	22 54 23.692	+3.3161	+ 258	−29 56 7.36	+19.069	−159
868	[ζ Gruis]	4.18	G 5	22 57 24.429	+3.5450	− 74	−53 4 15.35	+19.297	− 4
869	o Androm.	3.63	B 5 + A 2 p	22 59 12.039	+2.7595	+ 18	+42 0 31.14	+19.344	+ 2
870	β Pegasi	2.61	M o	23 0 54.599	+2.9080	+ 141	+27 45 44.78	+19.524	+143
871	α Pegasi	2.57	A o	23 1 49.168	+2.9881	+ 42	+14 53 14.84	+19.365	− 36
872	†ϑ Gruis	4.35	F 5	23 3 33.756	+3.3817	− 40	−43 50 21.87	+19.423	− 16
874	†π Cephei	4.56	G 5	23 6 0.801	+1.9060	+ 21	+75 4 6.40	+19.469	− 21
873	88 Aquarii	3.80	K o	23 6 18.192	+3.1991	+ 39	−21 29 34.65	+19.536	+ 40
875	Br 3077 Cass	5.65	K 2	23 10 25.866	+2.8866	+2522	+56 50 32.53	+19.876	+300
876	[25 G. Tucanae]	5.69	G o	23 13 25.771	+3.6121	+ 252	−62 19 23.25	+19.607	− 24
877	γ Tucanae	4.10	F 2	23 13 59.924	+3.5048	− 38	−58 33 33.85	+19.735	+ 94
878	[γ Piscium]	3.85	K o	23 14 6.340	+3.1100	+ 506	+ 2 57 34.75	+19.667	+ 24
879	γ Sculptoris	4.51	K o	23 15 38.546	+3.2407	+ 17	−32 51 13.14	+19.609	− 60

Nr. 847. Größe: Max. 3.7, Min. 4.6; Spektrum wechselt von F 5 bis G o.

Mittlere Sternörter 1941.0

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0.s0001	Dekl. 1941.0	Jährl. Veränderung	Jährl. Eigenbew. in 0."001
		m		h m s	s		° ′ ″	″	
880	τ Pegasi	4.65	A 5	23 17 42.777	+2.9691	+ 21	+23 25 1.84	+19.701	— 2
882	4 Cassiopeiae	5.20	K 5	23 22 12.340	+2.6622	+ 7	+61 57 31.47	+19.766	— 6
881	[υ Pegasi]	4.57	G 0	23 22 25.842	+2.9940	+137	+23 4 44.75	+19.817	+ 42
883	[ο Gruis]	5.54	F 0	23 23 18.972	+3.3586	+ 25	—53 2 54.23	+19.920	+133
884	ϰ Piscium	4.94	A 2 p	23 23 54.404	+3.0753	+ 56	+ 0 55 56.66	+19.705	— 90
885	70 Pegasi	4.67	K 0	23 26 10.098	+3.0340	+ 42	+12 26 5.84	+19.865	+ 39
886	[β Sculptoris]	4.46	B 9	23 29 48.732	+3.2181	+ 73	—38 8 41.30	+19.891	+ 21
887	†[72 Pegasi *m*]	5.21	K 2	23 31 1.243	+2.9757	+ 38	+30 59 58.33	+19.872	— 12
888	[248 G. Aquarii]	6.51	K 0	23 32 29.444	+3.0947	— 3	— 7 47 27.91	+19.925	+ 25
890	[λ Androm.]	4.00	K 0	23 34 40.088	+2.9351	+152	+46 8 18.29	+19.505	—416
889	[11 G. Phoenicis]	4.86	A 2	23 34 40.801	+3.2309	+ 64	—45 49 8.12	+19.916	— 5
891	ι Androm.	4.28	B 8	23 35 14.120	+2.9415	+ 23	+42 56 28.79	+19.929	+ 3
893	γ Cephei	3.42	K 0	23 36 54.324	+2.4557	—213	+77 18 10.97	+20.099	+157
892	ι Piscium	4.28	F 8	23 36 54.828	+3.0856	+249	+ 5 18 23.00	+19.510	—432
894	ω² Aquarii	4.62	A 0	23 39 39.806	+3.1111	+ 66	—14 52 16.63	+19.901	— 64
895	41 H. Cephei	5.02	A 0	23 45 4.431	+2.8651	+ 13	+67 28 44.27	+20.004	+ 3
896	δ Sculpt.	4.64	A 0	23 45 51.344	+3.1258	+ 81	—28 27 23.76	+19.905	—100
897	[268 G. Aquarii]	6.08	K 0	23 47 12.059	+3.0959	+ 92	—10 18 12.98	+20.091	+ 79
898	φ Pegasi	5.23	M 0	23 49 28.956	+3.0518	— 5	+18 47 33.41	+19.992	— 30
899	[ρ Cassiopeiae]	4.85	F 8 p	23 51 25.439	+2.9952	— 7	+57 10 16.28	+20.034	+ 5
900	[27 Piscium]	5.07	K 0	23 55 39.124	+3.0716	— 33	— 3 52 59.88	+19.974	— 66
901	[π Phoenicis]	5.14	K 0	23 55 52.771	+3.1105	+ 56	—53 4 31.31	+20.109	+ 69
902	ω Piscium	4.03	F 5	23 56 16.766	+3.0808	+101	+ 6 32 12.05	+19.933	—108
903	ε Tucanae	4.71	B 9	23 56 51.895	+3.1226	+ 89	—65 54 19.17	+20.023	— 19
904	[ϑ Octantis]	4.73	K 0	23 58 35.564	+3.0942	—151	—77 23 28.57	+19.883	—160

Von den Sternen, deren Namen eingeklammert sind, folgen keine Ephemeriden.
Ein † vor dem Namen eines Sternes deutet darauf hin, daß dieser Stern in Zukunft nicht mehr als Fundamentalstern gelten soll. Vgl. Astron. Nachr. Bd. 231, S. 309.

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.s001	Dekl. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.″001

Nördliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.s001	Dekl. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
Na	43 H. Cephei	4.52	K 0	1 0 17.68	+ 8.057	+ 77	+85 56 30.26	+19.346	− 6
Nb	α Ursae min.	2.12	F 8	1 43 10.02	+36.197	+170	+88 59 2.31	+18.031	− 4
Nc	*Grb 750 Ceph	6.70	F 8	4 17 10.63	+18.051	+ 18	+85 23 45.77	+ 8.710	+ 29
Nd	51 H. Cephei	5.26	M 0	7 13 36.19	+28.412	− 48	+87 8 33.36	− 6.381	− 34
Ne	1 H. Dracon.	4.58	K 2	9 28 50.30	+ 8.601	− 7	+81 35 23.31	−15.861	− 18
Nf	30 H. Camel.	5.34	F 2	10 24 3.95	+ 7.361	− 44	+82 51 36.79	−18.290	+ 25
Ng	ε Ursae min.	4.40	G 5	16 51 56.31	− 6.172	+ 6	+82 8 14.67	− 5.866	+ 4
Nh	δ Ursae min.	4.44	A 0	17 51 13.39	−19.466	+ 12	+86 36 42.40	− 0.725	+ 55
Ni	λ Ursae min.	6.55	M 3	18 32 53.46	−76.443	−112	+89 2 42.18	+ 2.814	+ 3
Nk	76 Draconis	5.69	A 0	20 46 58.78	− 4.304	+ 14	+82 18 52.22	+13.370	+ 27

Nr. Ne. Größe aus Harvard 54 entnommen.

Südliche Polsterne

Nr.	Name	Größe	Spektrum	AR. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.s001	Dekl. 1941.0	Jährl. Veränderung 1941.5	Jährl. Eigenbew. in 0.″001
		m		h m s	s		° ′ ″	″	
Sa	4 G. Octantis	5.63	K 0	1 40 36.28	− 3.482	+ 22	−85 4 6.26	+18.169	+ 25
Sb	ξ Mensae	5.85	K 0	5 5 30.80	− 6.863	− 3	−82 33 9.25	+ 4.736	+ 10
Sc	ζ Octantis	5.38	F 0	9 5 38.62	− 8.553	− 91	−85 25 47.94	−14.477	+ 36
Sd	ι Octantis	5.38	K 0	12 48 33.87	+ 6.214	+ 46	−84 48 12.62	−19.569	+ 24
Se	20 G. Octantis	6.52	A 2	14 57 5.28	+28.535	−177	−87 54 44.17	−14.405	− 68
Sf	26 G. Octantis	6.13	A 0	16 38 29.08	+22.282	+ 10	−86 15 54.07	− 6.964	0
Sg	χ Octantis	5.22	K 0	18 20 28.00	+35.527	− 73	−87 39 26.95	+ 1.683	−130
Sh	σ Octantis	5.48	F 0	20 3 8.00	+81.720	+134	−89 9 54.89	+10.305	− 4
Si	β Octantis	4.34	F 0	22 40 9.22	+ 6.171	− 23	−81 41 30.66	+18.850	+ 9
Sk	τ Octantis	5.56	K 0	23 20 0.92	+ 9.139	+ 28	−87 48 25.28	+19.752	+ 11

Formeln

zur Reduktion auf den scheinbaren Ort

$$A = t - (0.34213 + 0.00034\,T) \sin ☊ + 0.00415 \sin 2☊ - 0.02525 \sin 2L_{\odot}$$
$$+ 0.00250 \sin M_{\odot} - 0.00099 \sin (2L_{\odot} + M_{\odot}) + 0.00042 \sin (2L_{\odot} - M_{\odot})$$
$$+ 0.00024 \sin (2L_{\odot} - ☊) + 0.00010 \sin (2L_{☾} - 2M_{☾} - ☊)$$
$$+ 0.00008 \sin (2L_{\odot} - 2L_{☾} + 2M_{☾})$$

$$A' = - 0.00405 \sin 2L_{☾} + 0.00135 \sin M_{☾} - 0.00067 \sin (2L_{☾} - ☊)$$
$$- 0.00052 \sin (2L_{☾} + M_{☾}) + 0.00030 \sin (2L_{☾} - 2L_{\odot} - M_{☾})$$
$$+ 0.00022 \sin (2L_{☾} - M_{☾}) + 0.00012 \sin (2L_{☾} - 2L_{\odot})$$
$$+ 0.00012 \sin (M_{☾} + ☊) + 0.00012 \sin (M_{☾} - ☊)$$
$$- 0.00010 \sin (4L_{☾} - 2L_{\odot} - M_{☾}) - 0.00008 \sin (2L_{☾} + M_{☾} - ☊)$$

$$B = - (9''.210 + 0''.001\,T) \cos ☊ + 0''.090 \cos 2☊ - 0''.551 \cos 2L_{\odot}$$
$$- 0''.022 \cos (2L_{\odot} + M_{\odot}) + 0''.009 \cos (2L_{\odot} - M_{\odot})$$
$$+ 0''.007 \cos (2L_{\odot} - ☊) + 0''.003 \cos (2L_{☾} - 2M_{☾} - ☊)$$

$$B' = - 0''.089 \cos 2L_{☾} - 0''.018 \cos (2L_{☾} - ☊) - 0''.011 \cos (2L_{☾} + M_{☾})$$
$$+ 0''.005 \cos (2L_{☾} - M_{☾}) + 0''.003 \cos (M_{☾} + ☊) - 0''.003 \cos (M_{☾} - ☊)$$
$$- 0''.002 \cos (4L_{☾} - 2L_{\odot} - M_{☾}) - 0''.002 \cos (2L_{☾} + M_{☾} - ☊)$$

$$C = - 20''.47 \cos \odot \cos \varepsilon$$

$$D = - 20''.47 \sin \odot$$

$$E = - (0^{s}.0029 - 0^{s}.0004\,T) \sin ☊$$

T Zeit seit 1900.0 in Einheiten von 100 tropischen Jahren,
t Zeit seit Beginn des annus fictus in Bruchteilen des tropischen Jahres;

$t = 0$ für 1941 Januar $0^{d}.7436$ Welt-Zeit.

$a = m + {}^1/_{15}\,n \sin \alpha \operatorname{tg} \delta$	$a' = n \cos \alpha$
$b = {}^1/_{15} \cos \alpha \operatorname{tg} \delta$	$b' = - \sin \alpha$
$c = {}^1/_{15} \cos \alpha \sec \delta$	$c' = \operatorname{tg} \varepsilon \cos \delta - \sin \alpha \sin \delta$
$d = {}^1/_{15} \sin \alpha \sec \delta$	$d' = \cos \alpha \sin \delta$

Für 1941.0 gilt: $m = +3^{s}.0731$, $n = +20''.043$, $\varepsilon = 23^{\circ}\ 26'\ 49''.05$

$$\alpha_{app.} = \alpha_{1941.0} + t\,\mu_{\alpha} + Aa + Bb + Cc + Dd + E + [A'a + B'b]$$
$$\delta_{app.} = \delta_{1941.0} + t\,\mu_{\delta} + Aa' + Bb' + Cc' + Dd' + [A'a' + B'b']$$

μ_{α}, μ_{δ} jährliche Eigenbewegung in Rektaszension, bez. Deklination.

Setzt man

$f = mA + E$	$f' = mA'$	$i = C \operatorname{tg} \varepsilon$
$g \sin G = B$	$g' \sin G' = B'$	$h \sin H = C$
$g \cos G = nA$	$g' \cos G' = nA'$	$h \cos H = D,$

so wird:

$$\alpha_{app.} = \alpha_{1941.0} + t\,\mu_{\alpha} + f + {}^1/_{15}\,g \sin (G + \alpha) \operatorname{tg} \delta + {}^1/_{15}\,h \sin (H + \alpha) \sec \delta$$
$$+ [f' + {}^1/_{15}\,g' \sin (G' + \alpha) \operatorname{tg} \delta]$$

$$\delta_{app.} = \delta_{1941.0} + t\,\mu_{\delta} + g \cos (G + \alpha) + h \cos (H + \alpha) \sin \delta + i \cos \delta$$
$$+ [g' \cos (G' + \alpha)]$$

Reduktionsgrößen 1941

für 12^h Sternzeit Greenwich

Welt-Zeit		t	log A	log B	log C	log D	E
1941							
Jan.	0.2	$-0^{s}.0014$	8.65108	0.99047	0.48728n	1.30522	$+0^{s}.0003$
	10.2	+0.0259	8.88801	0.98655	0.79886n	1.28524	3
	20.2	0.0532	9.03226	0.98009	0.96914n	1.24981	2
	30.1	0.0805	9.13152	0.97188	1.08059n	1.19620	2
Febr.	9.1	0.1078	9.20363	0.96289	1.15785n	1.11935	2
	19.1	0.1351	9.25804	0.95429	1.21149n	1.00937	+0.0002
März	1.1	0.1624	9.30040	0.94719	1.24689n	0.84330	1
	11.0	0.1897	9.33498	0.94260	1.26712n	0.54753	1
	21.0	0.2170	9.36502	0.94111	1.27370n	7.00000n	1
	31.0	0.2443	9.39312	0.94285	1.26722n	0.54543n	+0.0001
April	10.0	0.2716	9.42118	0.94763	1.24751n	0.83872n	0.0000
	19.9	0.2989	9.45040	0.95463	1.21357n	1.00290n	0
	29.9	0.3262	9.48134	0.96298	1.16319n	1.11150n	0
Mai	9.9	0.3535	9.51392	0.97165	1.09219n	1.18772n	0
	19.8	0.3808	9.54760	0.97964	0.99255n	1.24160n	−0.0001
	29.8	0.4081	9.58163	0.98619	0.84689n	1.27832n	−0.0001
Juni	8.8	0.4354	9.61513	0.99065	0.60681n	1.30081n	1
	18.8	0.4627	9.64729	0.99264	9.97909n	1.31057n	1
	28.7	0.4901	9.67745	0.99189	0.33465	1.30822n	2
Juli	8.7	0.5174	9.70509	0.98856	0.71700	1.29367n	2
	18.7	0.5447	9.72991	0.98281	0.90961	1.26611n	−0.0002
	28.7	0.5720	9.75176	0.97534	1.03391	1.22363n	2
Aug.	7.6	0.5993	9.77070	0.96661	1.12084	1.16286n	3
	17.6	0.6266	9.78691	0.95766	1.18313	1.07744n	3
	27.6	0.6539	9.80074	0.94934	1.22693	0.95468n	3
Sept.	6.5	0.6812	9.81267	0.94265	1.25551	0.76343n	−0.0003
	16.5	0.7085	9.82329	0.93847	1.27066	0.38184n	3
	26.5	0.7358	9.83322	0.93722	1.27309	0.02938	4
Okt.	6.5	0.7631	9.84313	0.93922	1.26276	0.65667	4
	16.4	0.7904	9.85363	0.94409	1.23877	0.89702	4
	26.4	0.8177	9.86518	0.95124	1.19929	1.04246	−0.0004
Nov.	5.4	0.8450	9.87808	0.95961	1.14082	1.14139	5
	15.4	0.8723	9.89236	0.96806	1.05717	1.21115	5
	25.3	0.8996	9.90787	0.97557	0.93566	1.25969	5
Dez.	5.3	0.9269	9.92422	0.98114	0.74515	1.29117	5
	15.3	0.9542	9.94089	0.98399	0.36511	1.30777	−0.0006
	25.2	0.9815	9.95734	0.98376	0.00173n	1.31050	6
	35.2	1.0088	9.97304	0.98023	0.63327n	1.29944	−0.0006

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1941	h	s	s		h m		h m		"
Jan. 0	6.6	−0.0020	+0.136	0.9923	5 39.4	1.3102	23 26.3	0.1136n	−1.299
1	6.7	+0.0007	0.146	0.9923	5 37.8	1.3100	23 22.5	0.1590n	1.442
2	6.7	0.0034	0.156	0.9923	5 36.3	1.3098	23 18.8	0.1998n	1.584
3	6.8	0.0062	0.166	0.9923	5 34.7	1.3096	23 15.0	0.2370n	1.726
4	6.9	0.0089	0.176	0.9923	5 33.2	1.3093	23 11.2	0.2711n	1.867
5	6.9	0.0117	0.186	0.9922	5 31.6	1.3090	23 7.4	0.3028n	2.008
6	7.0	0.0144	+0.196	0.9922	5 30.1	1.3087	23 3.7	0.3320n	−2.148
7	7.1	0.0171	0.206	0.9922	5 28.6	1.3084	22 59.9	0.3593n	2.287
8	7.1	0.0199	0.216	0.9921	5 27.1	1.3081	22 56.1	0.3849n	2.426
9	7.2	0.0226	0.226	0.9921	5 25.5	1.3077	22 52.3	0.4089n	2.564
10	7.3	0.0253	0.236	0.9920	5 24.0	1.3073	22 48.5	0.4315n	2.701
11	7.3	0.0281	0.245	0.9920	5 22.5	1.3069	22 44.7	0.4530n	2.838
12	7.4	0.0308	+0.255	0.9919	5 21.0	1.3065	22 40.9	0.4732n	−2.973
13	7.5	0.0336	0.265	0.9918	5 19.5	1.3061	22 37.1	0.4923n	3.107
14	7.5	0.0363	0.274	0.9917	5 18.0	1.3056	22 33.2	0.5107n	3.241
15	7.6	0.0390	0.284	0.9916	5 16.5	1.3052	22 29.4	0.5280n	3.373
16	7.7	0.0418	0.293	0.9915	5 15.1	1.3047	22 25.5	0.5446n	3.504
17	7.7	0.0445	0.302	0.9914	5 13.6	1.3042	22 21.7	0.5604n	3.634
18	7.8	0.0472	+0.312	0.9912	5 12.2	1.3037	22 17.8	0.5755n	−3.763
19	7.9	0.0500	0.321	0.9911	5 10.7	1.3031	22 13.9	0.5901n	3.891
20	7.9	0.0527	0.330	0.9909	5 9.3	1.3026	22 10.1	0.6039n	4.017
21	8.0	0.0555	0.339	0.9908	5 7.9	1.3020	22 6.2	0.6172n	4.142
22	8.1	0.0582	0.348	0.9906	5 6.5	1.3015	22 2.3	0.6300n	4.266
23	8.1	0.0609	0.356	0.9905	5 5.1	1.3009	21 58.4	0.6424n	4.389
24	8.2	0.0637	+0.365	0.9903	5 3.7	1.3003	21 54.4	0.6542n	−4.510
25	8.3	0.0664	0.374	0.9902	5 2.3	1.2997	21 50.5	0.6655n	4.629
26	8.3	0.0691	0.382	0.9900	5 1.0	1.2991	21 46.6	0.6765n	4.748
27	8.4	0.0719	0.390	0.9898	4 59.6	1.2985	21 42.6	0.6871n	4.865
28	8.5	0.0746	0.399	0.9897	4 58.3	1.2979	21 38.7	0.6972n	4.980
29	8.5	0.0774	0.407	0.9895	4 56.9	1.2973	21 34.7	0.7070n	5.093
30	8.6	0.0801	+0.415	0.9893	4 55.6	1.2966	21 30.7	0.7163n	−5.204
31	8.7	0.0828	0.423	0.9892	4 54.3	1.2960	21 26.7	0.7254n	5.314
Febr. 1	8.7	0.0856	0.431	0.9890	4 53.0	1.2953	21 22.7	0.7342n	5.423
2	8.8	0.0883	0.439	0.9889	4 51.7	1.2947	21 18.7	0.7427n	5.530
3	8.9	0.0911	0.447	0.9887	4 50.5	1.2940	21 14.7	0.7509n	5.635
4	8.9	0.0938	0.454	0.9886	4 49.2	1.2933	21 10.7	0.7588n	5.738
5	9.0	0.0965	+0.462	0.9884	4 48.0	1.2927	21 6.6	0.7663n	−5.839
6	9.0	0.0993	0.469	0.9883	4 46.8	1.2920	21 2.6	0.7737n	5.939
7	9.1	0.1020	0.476	0.9881	4 45.6	1.2913	20 58.5	0.7808n	6.037
8	9.2	0.1047	0.484	0.9880	4 44.4	1.2907	20 54.4	0.7877n	6.133
9	9.2	0.1075	0.491	0.9878	4 43.2	1.2900	20 50.3	0.7943n	6.227
10	9.3	0.1102	+0.498	0.9877	4 42.0	1.2894	20 46.2	0.8006n	−6.318

Tag	0ʰ Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1941	in 0.001 s	in 0.01 "	h	"	"	in 0.01 "	23° 26' "	"	in 0.01 "	in 0.001	
Jan. 0	+13	+9	1.1	−0.10	+2.32	+21	49.05	−9.78	−2	43	89
1	+13	9	23.6	+0.04	2.35	+22	49.05	9.78	+1	43	89
2	+11	8	22.2	0.17	2.38	+19	49.04	9.77	+4	43	89
3	+ 8	8	20.7	0.31	2.41	+13	49.04	9.77	+6	43	89
4	+ 3	7	19.0	0.45	2.43	+ 5	49.04	9.76	+7	43	89
5	− 2	7	17.3	0.59	2.46	− 3	49.04	9.75	+7	43	89
6	− 6	+7	15.5	+0.72	+2.49	−10	49.04	−9.74	+5	43	89
7	− 9	7	13.7	0.86	2.51	−15	49.04	9.73	+3	43	89
8	−11	7	12.1	1.00	2.54	−18	49.04	9.72	0	43	89
9	−11	8	10.6	1.14	2.56	−18	49.04	9.71	−3	43	89
10	− 9	8	9.2	1.27	2.58	−15	49.03	9.70	−5	43	88
11	− 5	7	7.8	1.41	2.60	− 9	49.03	9.69	−7	43	88
12	− 1	+7	6.3	+1.55	+2.62	− 1	49.03	−9.67	−7	43	88
13	+ 3	6	4.6	1.69	2.64	+ 6	49.03	9.66	−6	43	88
14	+ 7	6	2.5	1.82	2.66	+11	49.03	9.65	−3	43	88
15	+ 9	6	0.0	1.96	2.68	+14	49.03	9.63	0	43	88
16	+ 8	6	21.8	2.10	2.70	+13	49.03	9.62	+3	43	88
17	+ 5	7	19.9	2.24	2.71	+ 8	49.03	9.60	+6	43	88
18	+ 1	+7	18.2	+2.37	+2.72	+ 1	49.02	−9.59	+7	43	88
19	− 4	7	16.6	2.51	2.73	− 7	49.02	9.57	+7	43	88
20	− 8	7	14.8	2.65	2.74	−13	49.02	9.56	+5	43	88
21	−10	7	13.0	2.79	2.75	−16	49.02	9.54	+2	43	87
22	− 9	6	10.8	2.92	2.76	−15	49.02	9.52	−2	43	87
23	− 6	7	8.5	3.06	2.76	−10	49.02	9.50	−5	43	87
24	− 2	+7	6.6	+3.20	+2.77	− 3	49.02	−9.49	−7	43	87
25	+ 4	8	4.7	3.34	2.77	+ 6	49.02	9.47	−7	43	87
26	+ 9	8	3.1	3.47	2.77	+14	49.01	9.45	−6	43	87
27	+12	8	1.5	3.61	2.77	+19	49.01	9.43	−3	43	87
28	+13	8	0.1	3.75	2.77	+21	49.01	9.41	0	43	87
29	+12	8	22.7	3.89	2.77	+19	49.01	9.39	+3	43	87
30	+ 9	+8	21.2	+4.03	+2.76	+14	49.01	−9.38	+5	43	86
31	+ 5	7	19.6	4.16	2.76	+ 7	49.01	9.36	+7	43	86
Febr. 1	0	7	17.9	4.30	2.75	− 1	49.01	9.34	+7	43	86
2	− 5	7	16.1	4.44	2.74	− 8	49.00	9.32	+6	43	86
3	− 9	7	14.3	4.58	2.73	−14	49.00	9.30	+4	43	86
4	−11	7	12.7	4.71	2.72	−18	49.00	9.28	+1	42	86
5	−12	+8	11.2	+4.85	+2.70	−20	49.00	−9.26	−2	42	86
6	−10	8	9.8	4.99	2.68	−17	49.00	9.24	−4	42	85
7	− 7	8	8.4	5.13	2.66	−12	49.00	9.22	−6	42	85
8	− 3	8	7.0	5.26	2.64	− 5	49.00	9.20	−7	42	85
9	+ 2	7	5.4	5.40	2.62	+ 3	49.00	9.18	−7	42	85
10	+ 6	+6	3.4	+5.54	+2.60	+ 9	48.99	−9.16	−4	42	85

Reduktionsgrößen 1941

Tag	0ʰ Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1941	h	s	s		h m		h m		"
Febr. 10	9.3	0.1102	+0.498	0.9877	4 42.0	1.2894	20 46.2	0.8006*n*	−6.318
11	9.4	0.1130	0.505	0.9876	4 40.9	1.2887	20 42.1	0.8067*n*	6.408
12	9.4	0.1157	0.511	0.9875	4 39.7	1.2881	20 38.0	0.8126*n*	6.496
13	9.5	0.1184	0.518	0.9874	4 38.6	1.2874	20 33.9	0.8184*n*	6.582
14	9.6	0.1212	0.525	0.9873	4 37.5	1.2868	20 29.7	0.8238*n*	6.665
15	9.6	0.1239	0.531	0.9872	4 36.4	1.2862	20 25.6	0.8290*n*	6.746
16	9.7	0.1266	+0.538	0.9871	4 35.3	1.2855	20 21.4	0.8342*n*	−6.826
17	9.8	0.1294	0.544	0.9871	4 34.3	1.2849	20 17.3	0.8390*n*	6.903
18	9.8	0.1321	0.550	0.9870	4 33.2	1.2843	20 13.1	0.8437*n*	6.978
19	9.9	0.1349	0.556	0.9870	4 32.2	1.2837	20 8.9	0.8483*n*	7.051
20	10.0	0.1376	0.562	0.9870	4 31.2	1.2831	20 4.7	0.8526*n*	7.122
21	10.0	0.1403	0.568	0.9870	4 30.2	1.2825	20 0.5	0.8567*n*	7.190
22	10.1	0.1431	+0.574	0.9870	4 29.2	1.2819	19 56.2	0.8607*n*	−7.256
23	10.2	0.1458	0.580	0.9870	4 28.2	1.2814	19 52.0	0.8645*n*	7.320
24	10.2	0.1485	0.586	0.9871	4 27.2	1.2809	19 47.8	0.8681*n*	7.381
25	10.3	0.1513	0.592	0.9871	4 26.3	1.2803	19 43.5	0.8716*n*	7.441
26	10.4	0.1540	0.597	0.9872	4 25.4	1.2798	19 39.3	0.8749*n*	7.498
27	10.4	0.1568	0.603	0.9873	4 24.5	1.2793	19 35.0	0.8781*n*	7.553
28	10.5	0.1595	+0.608	0.9874	4 23.6	1.2789	19 30.7	0.8811*n*	−7.605
März 1	10.6	0.1622	0.614	0.9876	4 22.8	1.2784	19 26.5	0.8839*n*	7.654
2	10.6	0.1650	0.619	0.9877	4 21.9	1.2780	19 22.2	0.8866*n*	7.702
3	10.7	0.1677	0.624	0.9879	4 21.1	1.2775	19 17.9	0.8891*n*	7.747
4	10.8	0.1705	0.629	0.9881	4 20.2	1.2771	19 13.6	0.8915*n*	7.789
5	10.8	0.1732	0.635	0.9883	4 19.4	1.2767	19 9.3	0.8938*n*	7.830
6	10.9	0.1759	+0.640	0.9885	4 18.6	1.2764	19 5.0	0.8959*n*	−7.868
7	11.0	0.1787	0.645	0.9888	4 17.8	1.2761	19 0.7	0.8978*n*	7.904
8	11.0	0.1814	0.650	0.9891	4 17.0	1.2758	18 56.3	0.8997*n*	7.937
9	11.1	0.1841	0.655	0.9894	4 16.2	1.2755	18 52.0	0.9013*n*	7.967
10	11.2	0.1869	0.660	0.9897	4 15.4	1.2752	18 47.7	0.9028*n*	7.995
11	11.2	0.1896	0.665	0.9901	4 14.7	1.2749	18 43.4	0.9042*n*	8.021
12	11.3	0.1924	+0.669	0.9905	4 14.0	1.2747	18 39.0	0.9055*n*	−8.045
13	11.3	0.1951	0.674	0.9909	4 13.3	1.2745	18 34.7	0.9067*n*	8.066
14	11.4	0.1978	0.679	0.9913	4 12.6	1.2743	18 30.4	0.9076*n*	8.084
15	11.5	0.2006	0.684	0.9918	4 11.9	1.2741	18 26.0	0.9085*n*	8.100
16	11.5	0.2033	0.689	0.9923	4 11.2	1.2740	18 21.7	0.9092*n*	8.114
17	11.6	0.2060	0.693	0.9928	4 10.5	1.2739	18 17.4	0.9098*n*	8.125
18	11.7	0.2088	+0.698	0.9934	4 9.8	1.2738	18 13.0	0.9103*n*	−8.134
19	11.7	0.2115	0.703	0.9940	4 9.2	1.2738	18 8.7	0.9106*n*	8.140
20	11.8	0.2143	0.708	0.9946	4 8.6	1.2737	18 4.4	0.9108*n*	8.143
21	11.9	0.2170	0.712	0.9953	4 8.0	1.2737	18 0.0	0.9108*n*	8.144
22	11.9	0.2197	0.717	0.9959	4 7.3	1.2737	17 55.7	0.9108*n*	8.143
23	12.0	0.2225	+0.722	0.9966	4 6.7	1.2737	17 51.4	0.9106*n*	−8.140

Tag	f′	g′	G′	Allgemeine Präzession seit 1941.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
	0h Welt-Zeit										
1941	in 0.001	in 0.01	h	"	"	in 0.01	23° 26′ "	"	in 0.01	in 0.001	
Febr. 10	+ 6	+6	3.4	+ 5.54	+2.60	+ 9	48.99	−9.16	−4	42	85
11	+ 8	6	1.0	5.68	2.58	+13	48.99	9.14	−1	42	85
12	+ 8	6	22.5	5.81	2.55	+14	48.99	9.13	+2	42	85
13	+ 6	7	20.5	5.95	2.52	+10	48.99	9.11	+5	42	85
14	+ 2	7	18.8	6.09	2.49	+ 4	48.99	9.09	+7	42	84
15	− 2	7	17.3	6.23	2.46	− 3	48.99	9.07	+7	42	84
16	− 6	+7	15.6	+ 6.36	+2.43	−10	48.99	−9.05	+6	42	84
17	− 9	6	13.6	6.50	2.40	−14	48.99	9.04	+3	42	84
18	− 9	6	11.4	6.64	2.36	−15	48.98	9.02	−1	42	84
19	− 6	6	9.0	6.78	2.32	−11	48.98	9.00	−4	42	84
20	− 2	7	6.8	6.91	2.28	− 4	48.98	8.99	−7	42	84
21	+ 3	7	5.0	7.05	2.24	+ 5	48.98	8.97	−7	42	84
22	+ 8	+8	3.4	+ 7.19	+2.20	+13	48.98	−8.95	−6	42	84
23	+11	8	1.9	7.33	2.16	+19	48.98	8.94	−4	42	83
24	+13	8	0.5	7.46	2.12	+21	48.98	8.92	−1	42	83
25	+12	8	23.0	7.60	2.07	+20	48.98	8.91	+2	42	83
26	+10	8	21.6	7.74	2.03	+16	48.97	8.89	+4	42	83
27	+ 6	7	20.1	7.88	1.98	+ 9	48.97	8.88	+6	42	83
28	+ 1	+7	18.5	+ 8.02	+1.93	+ 2	48.97	−8.87	+7	42	83
März 1	− 3	7	16.7	8.15	1.88	− 6	48.97	8.86	+6	42	83
2	− 7	7	14.8	8.29	1.83	−12	48.97	8.84	+4	42	83
3	−11	7	13.1	8.43	1.78	−17	48.97	8.83	+2	42	83
4	−12	8	11.7	8.57	1.73	−19	48.97	8.82	−1	42	83
5	−11	8	10.4	8.70	1.68	−19	48.96	8.81	−3	43	83
6	− 9	+8	9.1	+ 8.84	+1.62	−15	48.96	−8.80	−6	43	83
7	− 5	8	7.7	8.98	1.57	− 9	48.96	8.79	−7	43	82
8	− 1	7	6.3	9.12	1.51	− 1	48.96	8.78	−7	43	82
9	+ 3	6	4.5	9.25	1.45	+ 6	48.96	8.78	−5	43	82
10	+ 7	5	2.1	9.39	1.40	+11	48.96	8.77	−3	43	82
11	+ 8	5	23.3	9.53	1.34	+13	48.96	8.76	+1	43	82
12	+ 7	+6	21.1	+ 9.67	+1.28	+11	48.96	−8.76	+4	43	82
13	+ 3	7	19.2	9.80	1.22	+ 6	48.95	8.75	+7	43	82
14	− 1	8	17.7	9.94	1.16	− 2	48.95	8.75	+8	43	82
15	− 5	8	16.1	10.08	1.10	− 9	48.95	8.74	+7	43	82
16	− 8	7	14.4	10.22	1.04	−14	48.95	8.74	+4	43	82
17	− 9	6	12.2	10.35	0.98	−15	48.95	8.74	0	43	82
18	− 7	+6	9.6	+10.49	+0.92	−12	48.95	−8.73	−3	43	82
19	− 3	6	7.3	10.63	0.86	− 5	48.95	8.73	−6	43	82
20	+ 2	7	5.3	10.77	0.80	+ 4	48.95	8.73	−7	43	82
21	+ 7	8	3.6	10.91	0.74	+12	48.94	8.73	−7	43	82
22	+11	9	2.3	11.04	0.68	+19	48.94	8.73	−5	43	82
23	+13	+9	0.8	+11.18	+0.62	+22	48.94	−8.73	−2	43	82

Tag	0h Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1941	h	s	s		h m		h m		"
März 23	12.0	0.2225	+0.722	0.9966	4 6.7	1.2737	17 51.4	0.9106*n*	−8.140
24	12.1	0.2252	0.726	0.9973	4 6.1	1.2738	17 47.1	0.9103*n*	8.134
25	12.1	0.2279	0.731	0.9981	4 5.5	1.2739	17 42.7	0.9098*n*	8.125
26	12.2	0.2307	0.736	0.9988	4 4.9	1.2740	17 38.4	0.9092*n*	8.114
27	12.3	0.2334	0.741	0.9996	4 4.3	1.2741	17 34.1	0.9085*n*	8.101
28	12.3	0.2362	0.746	1.0004	4 3.7	1.2743	17 29.8	0.9077*n*	8.085
29	12.4	0.2389	+0.750	1.0013	4 3.2	1.2745	17 25.5	0.9067*n*	−8.067
30	12.5	0.2416	0.755	1.0022	4 2.6	1.2747	17 21.2	0.9056*n*	8.047
31	12.5	0.2444	0.760	1.0031	4 2.1	1.2749	17 16.9	0.9044*n*	8.024
April 1	12.6	0.2471	0.765	1.0040	4 1.5	1.2751	17 12.7	0.9030*n*	7.998
2	12.7	0.2499	0.770	1.0050	4 1.0	1.2754	17 8.4	0.9015*n*	7.970
3	12.7	0.2526	0.775	1.0060	4 0.4	1.2757	17 4.1	0.8998*n*	7.940
4	12.8	0.2553	+0.780	1.0070	3 59.9	1.2760	16 59.9	0.8981*n*	−7.908
5	12.9	0.2581	0.785	1.0080	3 59.3	1.2763	16 55.6	0.8961*n*	7.873
6	12.9	0.2608	0.790	1.0091	3 58.8	1.2767	16 51.4	0.8941*n*	7.836
7	13.0	0.2635	0.795	1.0102	3 58.3	1.2771	16 47.2	0.8919*n*	7.797
8	13.1	0.2663	0.800	1.0114	3 57.8	1.2775	16 43.0	0.8896*n*	7.756
9	13.1	0.2690	0.805	1.0126	3 57.2	1.2779	16 38.8	0.8872*n*	7.712
10	13.2	0.2718	+0.811	1.0138	3 56.7	1.2783	16 34.6	0.8846*n*	−7.666
11	13.3	0.2745	0.816	1.0150	3 56.2	1.2787	16 30.4	0.8818*n*	7.618
12	13.3	0.2772	0.822	1.0162	3 55.7	1.2792	16 26.2	0.8789*n*	7.567
13	13.4	0.2800	0.827	1.0174	3 55.1	1.2797	16 22.0	0.8759*n*	7.514
14	13.5	0.2827	0.833	1.0187	3 54.6	1.2802	16 17.8	0.8727*n*	7.460
15	13.5	0.2854	0.838	1.0200	3 54.1	1.2807	16 13.7	0.8694*n*	7.403
16	13.6	0.2882	+0.844	1.0213	3 53.6	1.2812	16 9.6	0.8659*n*	−7.344
17	13.6	0.2909	0.850	1.0226	3 53.1	1.2817	16 5.5	0.8623*n*	7.283
18	13.7	0.2937	0.855	1.0240	3 52.6	1.2823	16 1.4	0.8585*n*	7.220
19	13.8	0.2964	0.861	1.0254	3 52.0	1.2828	15 57.3	0.8545*n*	7.154
20	13.8	0.2991	0.867	1.0268	3 51.5	1.2834	15 53.2	0.8504*n*	7.086
21	13.9	0.3019	0.873	1.0282	3 51.0	1.2840	15 49.2	0.8461*n*	7.016
22	14.0	0.3046	+0.880	1.0297	3 50.4	1.2846	15 45.1	0.8417*n*	−6.945
23	14.0	0.3073	0.886	1.0312	3 49.9	1.2851	15 41.1	0.8371*n*	6.872
24	14.1	0.3101	0.892	1.0327	3 49.3	1.2857	15 37.0	0.8323*n*	6.797
25	14.2	0.3128	0.898	1.0342	3 48.8	1.2863	15 33.0	0.8274*n*	6.720
26	14.2	0.3156	0.905	1.0357	3 48.3	1.2870	15 29.0	0.8222*n*	6.641
27	14.3	0.3183	0.912	1.0372	3 47.7	1.2876	15 25.1	0.8169*n*	6.560
28	14.4	0.3210	+0.918	1.0388	3 47.2	1.2882	15 21.1	0.8114*n*	−6.477
29	14.4	0.3238	0.925	1.0403	3 46.7	1.2888	15 17.1	0.8056*n*	6.392
30	14.5	0.3265	0.932	1.0419	3 46.1	1.2895	15 13.2	0.7998*n*	6.306
Mai 1	14.6	0.3293	0.939	1.0435	3 45.5	1.2901	15 9.3	0.7937*n*	6.218
2	14.6	0.3320	0.946	1.0451	3 44.9	1.2907	15 5.4	0.7873*n*	6.128
3	14.7	0.3347	+0.953	1.0467	3 44.4	1.2914	15 1.5	0.7807*n*	−6.036

Tag	0h Welt-Zeit										
	f′	g′	G′	Allgemeine Präzession seit 1941.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1941	in 0.001 s	in 0.01 ″	h	″	″	in 0.01 s	23°26′ ″	″	in 0.01 ″	in 0.001	
März 23	+13	+ 9	0.8	+11.18	+0.62	+22	48.94	−8.73	−2	43	82
24	+13	9	23.4	11.32	0.56	+22	48.94	8.74	+1	43	82
25	+11	8	22.0	11.46	0.50	+18	48.94	8.74	+4	43	82
26	+ 7	8	20.6	11.59	0.44	+12	48.94	8.74	+6	43	82
27	+ 3	7	18.9	11.73	0.38	+ 4	48.94	8.75	+7	44	82
28	− 2	6	17.2	11.87	0.32	− 3	48.94	8.75	+6	44	82
29	− 6	+ 6	15.4	+12.01	+0.26	−10	48.93	−8.76	+5	44	82
30	− 9	7	13.7	12.14	0.20	−15	48.93	8.76	+3	44	82
31	−11	7	12.1	12.28	0.15	−18	48.93	8.77	0	44	82
April 1	−11	8	10.7	12.42	0.09	−18	48.93	8.77	−3	44	82
2	−10	8	9.5	12.56	+0.03	−16	48.93	8.78	−5	44	82
3	− 7	8	8.3	12.70	−0.03	−11	48.93	8.79	−6	44	82
4	− 3	+ 7	6.9	+12.83	−0.08	− 5	48.93	−8.80	−7	44	82
5	+ 1	6	5.4	12.97	0.14	+ 2	48.93	8.81	−6	44	82
6	+ 5	5	3.4	13.11	0.19	+ 8	48.92	8.82	−4	45	83
7	+ 7	4	0.5	13.25	0.24	+11	48.92	8.83	0	45	83
8	+ 6	5	21.6	13.38	0.30	+11	48.92	8.84	+3	45	83
9	+ 4	6	19.5	13.52	0.35	+ 6	48.92	8.85	+6	45	83
10	0	+ 8	17.8	+13.66	−0.40	− 1	48.92	−8.86	+8	45	83
11	− 5	8	16.4	13.80	0.45	− 8	48.92	8.88	+7	45	83
12	− 8	7	14.8	13.93	0.50	−14	48.92	8.89	+5	45	83
13	−10	7	13.0	14.07	0.55	−16	48.91	8.90	+2	45	83
14	− 9	6	10.7	14.21	0.59	−15	48.91	8.92	−2	46	83
15	− 5	6	8.2	14.35	0.64	− 9	48.91	8.93	−5	46	83
16	0	+ 7	5.9	+14.49	−0.68	0	48.91	−8.95	−7	46	83
17	+ 6	8	4.1	14.62	0.73	+10	48.91	8.96	−7	46	83
18	+11	9	2.6	14.76	0.77	+18	48.91	8.98	−6	46	84
19	+14	10	1.2	14.90	0.81	+23	48.91	8.99	−3	46	84
20	+15	10	23.9	15.04	0.85	+24	48.91	9.01	0	46	84
21	+13	9	22.6	15.17	0.89	+21	48.90	9.02	+3	47	84
22	+ 9	+ 8	21.2	+15.31	−0.93	+15	48.90	−9.04	+5	47	84
23	+ 5	7	19.6	15.45	0.96	+ 8	48.90	9.06	+7	47	84
24	0	7	17.9	15.59	1.00	0	48.90	9.08	+7	47	84
25	− 4	6	16.1	15.72	1.03	− 7	48.90	9.09	+5	47	84
26	− 8	6	14.2	15.86	1.06	−13	48.90	9.11	+3	47	84
27	−10	6	12.5	16.00	1.09	−16	48.90	9.13	+1	48	85
28	−11	+ 7	11.0	+16.14	−1.12	−17	48.90	−9.15	−2	48	85
29	−10	8	9.7	16.27	1.15	−16	48.89	9.17	−4	48	85
30	− 7	8	8.5	16.41	1.18	−11	48.89	9.18	−6	48	85
Mai 1	− 4	7	7.3	16.55	1.20	− 6	48.89	9.20	−7	48	85
2	0	6	5.9	16.69	1.23	+ 1	48.89	9.22	−6	48	85
3	+ 4	+ 5	4.1	+16.82	−1.25	+ 6	48.89	−9.24	−5	49	85

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1941	h	s	s		h m		h m		"
Mai 3	14.7	0.3347	+0.953	1.0467	3 44.4	1.2914	15 1.5	0.7807_n	−6.036
4	14.8	0.3375	0.960	1.0483	3 43.8	1.2920	14 57.6	0.7740_n	5.943
5	14.8	0.3402	0.967	1.0499	3 43.2	1.2926	14 53.7	0.7670_n	5.848
6	14.9	0.3429	0.974	1.0516	3 42.6	1.2933	14 49.8	0.7597_n	5.751
7	15.0	0.3457	0.982	1.0532	3 42.0	1.2939	14 46.0	0.7523_n	5.653
8	15.0	0.3484	0.989	1.0549	3 41.4	1.2945	14 42.1	0.7445_n	5.553
9	15.1	0.3512	+0.997	1.0565	3 40.8	1.2951	14 38.3	0.7365_n	−5.451
10	15.2	0.3539	1.005	1.0582	3 40.2	1.2958	14 34.5	0.7282_n	5.348
11	15.2	0.3566	1.012	1.0598	3 39.6	1.2964	14 30.7	0.7197_n	5.244
12	15.3	0.3594	1.020	1.0615	3 38.9	1.2970	14 26.9	0.7109_n	5.139
13	15.4	0.3621	1.028	1.0632	3 38.3	1.2976	14 23.1	0.7017_n	5.032
14	15.4	0.3648	1.036	1.0649	3 37.7	1.2982	14 19.4	0.6922_n	4.923
15	15.5	0.3676	+1.044	1.0666	3 37.1	1.2988	14 15.6	0.6824_n	−4.813
16	15.6	0.3703	1.052	1.0683	3 36.4	1.2993	14 11.9	0.6723_n	4.702
17	15.6	0.3731	1.061	1.0699	3 35.7	1.2999	14 8.1	0.6617_n	4.589
18	15.7	0.3758	1.069	1.0716	3 35.0	1.3005	14 4.4	0.6508_n	4.475
19	15.8	0.3785	1.077	1.0733	3 34.4	1.3011	14 0.7	0.6395_n	4.360
20	15.8	0.3813	1.086	1.0750	3 33.7	1.3016	13 57.0	0.6278_n	4.244
21	15.9	0.3840	+1.094	1.0767	3 33.0	1.3021	13 53.3	0.6156_n	−4.127
22	15.9	0.3867	1.103	1.0784	3 32.3	1.3026	13 49.7	0.6030_n	4.009
23	16.0	0.3895	1.112	1.0800	3 31.7	1.3031	13 46.0	0.5899_n	3.890
24	16.1	0.3922	1.120	1.0817	3 31.0	1.3036	13 42.3	0.5762_n	3.769
25	16.1	0.3950	1.129	1.0834	3 30.3	1.3041	13 38.7	0.5619_n	3.647
26	16.2	0.3977	1.138	1.0851	3 29.6	1.3046	13 35.1	0.5470_n	3.524
27	16.3	0.4004	+1.147	1.0868	3 28.9	1.3050	13 31.4	0.5315_n	−3.400
28	16.3	0.4032	1.156	1.0884	3 28.1	1.3055	13 27.8	0.5153_n	3.276
29	16.4	0.4059	1.165	1.0901	3 27.4	1.3059	13 24.2	0.4983_n	3.150
30	16.5	0.4086	1.174	1.0917	3 26.7	1.3063	13 20.6	0.4806_n	3.024
31	16.5	0.4114	1.184	1.0934	3 26.0	1.3067	13 17.0	0.4619_n	2.897
Juni 1	16.6	0.4141	1.193	1.0950	3 25.2	1.3071	13 13.4	0.4425_n	2.770
2	16.7	0.4169	+1.202	1.0967	3 24.5	1.3075	13 9.8	0.4219_n	−2.642
3	16.7	0.4196	1.212	1.0983	3 23.7	1.3078	13 6.2	0.4002_n	2.513
4	16.8	0.4223	1.221	1.0999	3 23.0	1.3082	13 2.7	0.3771_n	2.383
5	16.9	0.4251	1.231	1.1015	3 22.2	1.3085	12 59.1	0.3526_n	2.252
6	16.9	0.4278	1.240	1.1031	3 21.5	1.3088	12 55.6	0.3265_n	2.121
7	17.0	0.4306	1.250	1.1047	3 20.7	1.3091	12 52.1	0.2986_n	1.989
8	17.1	0.4333	+1.259	1.1063	3 19.9	1.3093	12 48.5	0.2688_n	−1.857
9	17.1	0.4360	1.269	1.1079	3 19.1	1.3096	12 45.0	0.2368_n	1.725
10	17.2	0.4388	1.278	1.1095	3 18.4	1.3098	12 41.4	0.2019_n	1.592
11	17.3	0.4415	1.288	1.1110	3 17.6	1.3100	12 37.9	0.1641_n	1.459
12	17.3	0.4442	1.298	1.1125	3 16.8	1.3102	12 34.4	0.1222_n	1.325
13	17.4	0.4470	+1.308	1.1140	3 16.0	1.3104	12 30.9	0.0755_n	−1.190

Tag		0h Welt-Zeit										
		f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1941		in 0.s001	in 0."01	h	"	"	in 0."01	23° 26' "	"	in 0."01	in 0.001	
Mai	3	+ 4	+ 5	4.1	+16.82	−1.25	+ 6	48.89	−9.24	−5	49	85
	4	+ 6	4	1.6	16.96	1.27	+10	48.89	9.26	−2	49	85
	5	+ 6	4	22.6	17.10	1.29	+10	48.89	9.28	+2	49	86
	6	+ 4	6	20.0	17.24	1.30	+ 7	48.89	9.30	+5	49	86
	7	0	7	18.2	17.37	1.32	+ 1	48.88	9.31	+7	49	86
	8	− 4	8	16.7	17.51	1.33	− 7	48.88	9.33	+8	50	86
	9	− 8	+ 8	15.2	+17.65	−1.35	−14	48.88	−9.35	+6	50	86
	10	−11	8	13.6	17.79	1.36	−18	48.88	9.37	+3	50	86
	11	−11	7	11.6	17.92	1.37	−18	48.88	9.39	−1	50	86
	12	− 8	7	9.4	18.06	1.38	−13	48.88	9.41	−4	50	86
	13	− 3	7	7.0	18.20	1.39	− 5	48.88	9.43	−7	51	87
	14	+ 3	8	4.9	18.34	1.40	+ 6	48.88	9.44	−8	51	87
	15	+ 9	+ 9	3.2	+18.48	−1.40	+15	48.87	−9.46	−7	51	87
	16	+13	10	1.7	18.61	1.41	+22	48.87	9.48	−4	51	87
	17	+15	10	0.3	18.75	1.41	+25	48.87	9.50	−1	51	87
	18	+14	10	23.0	18.89	1.41	+23	48.87	9.51	+3	52	87
	19	+11	9	21.6	19.03	1.41	+18	48.87	9.53	+5	52	87
	20	+ 7	8	20.3	19.16	1.41	+11	48.87	9.54	+6	52	87
	21	+ 2	+ 7	18.7	+19.30	−1.41	+ 3	48.87	−9.56	+7	52	87
	22	− 3	6	16.8	19.44	1.40	− 5	48.86	9.58	+6	52	88
	23	− 7	6	14.8	19.58	1.40	−11	48.86	9.59	+4	53	88
	24	− 9	6	12.9	19.71	1.39	−15	48.86	9.61	+2	53	88
	25	−10	7	11.3	19.85	1.38	−16	48.86	9.62	−1	53	88
	26	− 9	7	9.9	19.99	1.38	−15	48.86	9.64	−4	53	88
	27	− 7	+ 7	8.6	+20.13	−1.37	−11	48.86	−9.65	−6	53	88
	28	− 4	7	7.4	20.27	1.36	− 6	48.86	9.66	−7	54	88
	29	0	7	6.1	20.40	1.35	0	48.86	9.68	−7	54	88
	30	+ 3	6	4.5	20.54	1.33	+ 6	48.85	9.69	−5	54	88
	31	+ 6	5	2.3	20.68	1.32	+10	48.85	9.70	−3	54	88
Juni	1	+ 7	5	23.4	20.82	1.31	+11	48.85	9.71	+1	54	88
	2	+ 6	+ 5	20.9	+20.95	−1.29	+ 9	48.85	−9.73	+4	55	89
	3	+ 2	7	18.7	21.09	1.27	+ 3	48.85	9.74	+6	55	89
	4	− 3	8	17.1	21.23	1.26	− 5	48.85	9.75	+7	55	89
	5	− 7	8	15.6	21.37	1.24	−12	48.85	9.76	+7	55	89
	6	−11	8	14.1	21.50	1.22	−18	48.85	9.77	+4	55	89
	7	−12	8	12.4	21.64	1.20	−20	48.84	9.77	+1	56	89
	8	−11	+ 7	10.4	+21.78	−1.18	−17	48.84	−9.78	−3	56	89
	9	− 6	7	8.3	21.92	1.16	−10	48.84	9.79	−6	56	89
	10	0	7	6.1	22.05	1.14	0	48.84	9.80	−7	56	89
	11	+ 6	8	4.1	22.19	1.12	+10	48.84	9.80	−7	56	89
	12	+11	9	2.5	22.33	1.10	+18	48.84	9.81	−5	57	89
	13	+14	+10	1.0	+22.47	−1.08	+23	48.84	−9.81	−2	57	89

Reduktionsgrößen 1941

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1941	h	s	s		h m		h m		"
Juni 13	17.4	0.4470	+1.308	1.1140	3 16.0	1.3104	12 30.9	0.0755_n	−1.190
14	17.5	0.4497	1.317	1.1155	3 15.2	1.3105	12 27.4	0.0233_n	1.055
15	17.5	0.4525	1.327	1.1170	3 14.4	1.3107	12 23.8	9.9638_n	0.920
16	17.6	0.4552	1.337	1.1185	3 13.6	1.3108	12 20.3	9.8949_n	0.785
17	17.7	0.4579	1.347	1.1200	3 12.8	1.3109	12 16.8	9.8129_n	0.650
18	17.7	0.4607	1.357	1.1215	3 12.0	1.3110	12 13.3	9.7118_n	0.515
19	17.8	0.4634	+1.367	1.1229	3 11.2	1.3110	12 9.8	9.5798_n	−0.380
20	17.9	0.4661	1.376	1.1243	3 10.4	1.3111	12 6.3	9.3874_n	0.244
21	17.9	0.4689	1.386	1.1257	3 9.6	1.3111	12 2.8	9.0374_n	−0.109
22	18.0	0.4716	1.396	1.1271	3 8.8	1.3111	11 59.3	8.4314	+0.027
23	18.1	0.4744	1.406	1.1285	3 8.0	1.3111	11 55.8	9.2122	0.163
24	18.1	0.4771	1.416	1.1299	3 7.2	1.3111	11 52.3	9.4742	0.298
25	18.2	0.4798	+1.426	1.1313	3 6.3	1.3110	11 48.8	9.6375	+0.434
26	18.2	0.4826	1.436	1.1327	3 5.5	1.3110	11 45.3	9.7551	0.569
27	18.3	0.4853	1.445	1.1340	3 4.7	1.3109	11 41.8	9.8476	0.704
28	18.4	0.4880	1.455	1.1353	3 3.9	1.3108	11 38.3	9.9238	0.839
29	18.4	0.4908	1.465	1.1366	3 3.1	1.3106	11 34.8	9.9886	0.974
30	18.5	0.4935	1.475	1.1379	3 2.3	1.3105	11 31.3	0.0445	1.108
Juli 1	18.6	0.4963	+1.484	1.1392	3 1.4	1.3103	11 27.8	0.0941	+1.242
2	18.6	0.4990	1.494	1.1405	3 0.6	1.3101	11 24.3	0.1386	1.376
3	18.7	0.5017	1.504	1.1417	2 59.8	1.3099	11 20.7	0.1787	1.509
4	18.8	0.5045	1.513	1.1429	2 58.9	1.3097	11 17.2	0.2154	1.642
5	18.8	0.5072	1.523	1.1441	2 58.1	1.3095	11 13.7	0.2492	1.775
6	18.9	0.5100	1.533	1.1453	2 57.3	1.3092	11 10.2	0.2804	1.907
7	19.0	0.5127	+1.542	1.1465	2 56.5	1.3090	11 6.6	0.3092	+2.038
8	19.0	0.5154	1.552	1.1477	2 55.7	1.3087	11 3.1	0.3363	2.169
9	19.1	0.5182	1.561	1.1489	2 54.9	1.3084	10 59.6	0.3615	2.299
10	19.2	0.5209	1.570	1.1501	2 54.1	1.3080	10 56.0	0.3854	2.429
11	19.2	0.5236	1.580	1.1512	2 53.3	1.3077	10 52.5	0.4079	2.558
12	19.3	0.5264	1.589	1.1523	2 52.4	1.3074	10 48.9	0.4291	2.686
13	19.4	0.5291	+1.598	1.1534	2 51.6	1.3070	10 45.4	0.4493	+2.814
14	19.4	0.5319	1.608	1.1545	2 50.8	1.3066	10 41.8	0.4685	2.941
15	19.5	0.5346	1.617	1.1555	2 50.0	1.3062	10 38.2	0.4867	3.067
16	19.6	0.5373	1.626	1.1566	2 49.2	1.3058	10 34.6	0.5041	3.192
17	19.6	0.5401	1.635	1.1576	2 48.4	1.3053	10 31.0	0.5206	3.316
18	19.7	0.5428	1.644	1.1586	2 47.6	1.3049	10 27.4	0.5364	3.439
19	19.8	0.5455	+1.653	1.1596	2 46.8	1.3044	10 23.8	0.5517	+3.562
20	19.8	0.5483	1.662	1.1606	2 46.0	1.3040	10 20.2	0.5663	3.684
21	19.9	0.5510	1.670	1.1616	2 45.3	1.3035	10 16.6	0.5802	3.804
22	20.0	0.5538	1.679	1.1626	2 44.5	1.3030	10 12.9	0.5936	3.923
23	20.0	0.5565	1.688	1.1635	2 43.7	1.3025	10 9.3	0.6066	4.042
24	20.1	0.5592	+1.696	1.1644	2 43.0	1.3020	10 5.6	0.6190	+4.159

Tag	f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
	0ʰ Welt-Zeit										
1941	in 0.ˢ001	in 0.″01				in 0.″01	23° 26′		in 0.″01	in 0.001	
Juni 13	+14	+10	1.ʰ0	+22.″47	−1.″08	+23	48.″84	−9.″81	−2	57	89
14	+15	10	23.6	22.60	1.06	+24	48.84	9.82	+1	57	89
15	+13	9	22.2	22.74	1.03	+21	48.83	9.82	+4	57	89
16	+ 9	9	20.8	22.88	1.01	+14	48.83	9.83	+6	57	89
17	+ 4	8	19.3	23.02	0.99	+ 6	48.83	9.83	+7	58	89
18	− 1	7	17.5	23.16	0.97	− 2	48.83	9.83	+7	58	89
19	− 5	+ 6	15.6	+23.29	−0.94	− 9	48.83	−9.83	+5	58	89
20	− 8	6	13.6	23.43	0.92	−13	48.83	9.83	+2	58	89
21	−10	6	11.8	23.57	0.90	−16	48.83	9.83	0	58	89
22	− 9	7	10.2	23.71	0.87	−15	48.83	9.83	−3	58	89
23	− 7	7	8.8	23.84	0.85	−12	48.82	9.83	−5	59	89
24	− 4	7	7.5	23.98	0.82	− 7	48.82	9.83	−6	59	89
25	0	+ 7	6.2	+24.12	−0.80	− 1	48.82	−9.83	−7	59	89
26	+ 3	6	4.7	24.26	0.78	+ 5	48.82	9.82	−6	59	89
27	+ 6	5	2.9	24.39	0.76	+10	48.82	9.82	−4	59	89
28	+ 7	5	0.4	24.53	0.73	+12	48.82	9.82	−1	60	89
29	+ 7	5	21.9	24.67	0.71	+11	48.82	9.81	+3	60	89
30	+ 4	6	19.6	24.81	0.69	+ 6	48.81	9.81	+5	60	89
Juli 1	− 1	+ 7	17.8	+24.95	−0.67	− 1	48.81	−9.80	+7	60	89
2	− 5	8	16.2	25.08	0.65	− 9	48.81	9.80	+7	60	89
3	− 9	8	14.6	25.22	0.62	−16	48.81	9.79	+5	60	89
4	−12	8	13.0	25.36	0.60	−19	48.81	9.78	+2	61	89
5	−11	8	11.2	25.50	0.58	−19	48.81	9.77	−2	61	89
6	− 8	7	9.2	25.63	0.56	−14	48.81	9.77	−5	61	89
7	− 3	+ 7	7.2	+25.77	−0.55	− 5	48.81	−9.76	−7	61	89
8	+ 3	8	5.1	25.91	0.53	+ 5	48.80	9.75	−7	61	89
9	+ 8	8	3.2	26.05	0.51	+14	48.80	9.74	−6	61	89
10	+12	9	1.5	26.18	0.50	+20	48.80	9.73	−3	62	89
11	+14	9	0.0	26.32	0.48	+23	48.80	9.72	0	62	89
12	+13	9	22.6	26.46	0.46	+21	48.80	9.70	+3	62	89
13	+10	+ 8	21.2	+26.60	−0.45	+16	48.80	−9.69	+6	62	88
14	+ 5	8	19.7	26.73	0.44	+ 9	48.80	9.68	+7	62	88
15	0	7	18.1	26.87	0.42	+ 1	48.80	9.67	+7	62	88
16	− 4	6	16.2	27.01	0.41	− 7	48.79	9.65	+5	63	88
17	− 7	6	14.3	27.15	0.40	−12	48.79	9.64	+3	63	88
18	− 9	6	12.4	27.28	0.40	−15	48.79	9.62	+1	63	88
19	−10	+ 7	10.7	+27.42	−0.39	−16	48.79	−9.61	−2	63	88
20	− 8	7	9.2	27.56	0.38	−13	48.79	9.59	−5	63	88
21	− 5	7	7.8	27.70	0.38	− 9	48.79	9.58	−6	63	88
22	− 2	7	6.6	27.84	0.37	− 3	48.79	9.56	−7	63	88
23	+ 2	6	5.1	27.97	0.37	+ 4	48.79	9.55	−6	64	88
24	+ 6	+ 6	3.2	+28.11	−0.36	+10	48.78	−9.53	−4	64	87

Tag		0h Welt-Zeit								
		Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1941		h	s	s		h m		h m		"
Juli	24	20.1	0.5592	+1.696	1.1644	2 43.0	1.3020	10 5.6	0.6190	+4.159
	25	20.2	0.5620	1.705	1.1653	2 42.2	1.3014	10 2.0	0.6309	4.275
	26	20.2	0.5647	1.713	1.1662	2 41.4	1.3009	9 58.3	0.6425	4.390
	27	20.3	0.5674	1.722	1.1671	2 40.7	1.3003	9 54.6	0.6536	4.504
	28	20.4	0.5702	1.730	1.1680	2 39.9	1.2998	9 50.9	0.6643	4.616
	29	20.4	0.5729	1.738	1.1689	2 39.2	1.2992	9 47.2	0.6746	4.727
	30	20.5	0.5757	+1.746	1.1698	2 38.4	1.2986	9 43.5	0.6847	+4.838
	31	20.5	0.5784	1.754	1.1706	2 37.7	1.2981	9 39.8	0.6943	4.947
Aug.	1	20.6	0.5811	1.762	1.1714	2 36.9	1.2975	9 36.1	0.7036	5.054
	2	20.7	0.5839	1.770	1.1722	2 36.2	1.2969	9 32.3	0.7126	5.160
	3	20.7	0.5866	1.778	1.1730	2 35.5	1.2963	9 28.6	0.7214	5.265
	4	20.8	0.5894	1.785	1.1738	2 34.8	1.2957	9 24.8	0.7298	5.368
	5	20.9	0.5921	+1.793	1.1746	2 34.1	1.2950	9 21.0	0.7380	+5.470
	6	20.9	0.5948	1.800	1.1753	2 33.4	1.2944	9 17.2	0.7459	5.570
	7	21.0	0.5976	1.808	1.1761	2 32.7	1.2938	9 13.4	0.7534	5.668
	8	21.1	0.6003	1.815	1.1768	2 32.0	1.2932	9 9.6	0.7608	5.765
	9	21.1	0.6030	1.822	1.1776	2 31.3	1.2926	9 5.8	0.7679	5.860
	10	21.2	0.6058	1.830	1.1783	2 30.7	1.2919	9 2.0	0.7748	5.954
	11	21.3	0.6085	+1.837	1.1791	2 30.0	1.2913	8 58.1	0.7815	+6.047
	12	21.3	0.6113	1.844	1.1798	2 29.4	1.2906	8 54.2	0.7880	6.138
	13	21.4	0.6140	1.851	1.1805	2 28.7	1.2900	8 50.4	0.7942	6.226
	14	21.5	0.6167	1.857	1.1812	2 28.1	1.2894	8 46.5	0.8002	6.313
	15	21.5	0.6195	1.864	1.1819	2 27.5	1.2888	8 42.6	0.8060	6.398
	16	21.6	0.6222	1.871	1.1825	2 26.9	1.2882	8 38.7	0.8117	6.482
	17	21.7	0.6249	+1.877	1.1832	2 26.3	1.2875	8 34.7	0.8172	+6.564
	18	21.7	0.6277	1.884	1.1838	2 25.7	1.2869	8 30.8	0.8224	6.644
	19	21.8	0.6304	1.890	1.1845	2 25.1	1.2863	8 26.8	0.8275	6.722
	20	21.9	0.6332	1.897	1.1851	2 24.5	1.2857	8 22.9	0.8324	6.798
	21	21.9	0.6359	1.903	1.1858	2 23.9	1.2852	8 18.9	0.8371	6.872
	22	22.0	0.6386	1.909	1.1864	2 23.3	1.2846	8 14.9	0.8417	6.945
	23	22.1	0.6414	+1.915	1.1870	2 22.7	1.2840	8 10.9	0.8461	+7.016
	24	22.1	0.6441	1.921	1.1876	2 22.2	1.2834	8 6.9	0.8503	7.085
	25	22.2	0.6468	1.927	1.1883	2 21.6	1.2828	8 2.8	0.8544	7.152
	26	22.3	0.6496	1.933	1.1889	2 21.1	1.2823	7 58.8	0.8584	7.217
	27	22.3	0.6523	1.939	1.1895	2 20.6	1.2818	7 54.8	0.8621	7.279
	28	22.4	0.6551	1.945	1.1901	2 20.1	1.2813	7 50.7	0.8656	7.339
	29	22.5	0.6578	+1.950	1.1907	2 19.6	1.2807	7 46.6	0.8691	+7.398
	30	22.5	0.6605	1.956	1.1913	2 19.1	1.2802	7 42.6	0.8724	7.454
	31	22.6	0.6633	1.962	1.1919	2 18.6	1.2797	7 38.5	0.8755	7.508
Sept.	1	22.7	0.6660	1.967	1.1925	2 18.2	1.2793	7 34.4	0.8785	7.560
	2	22.7	0.6687	1.972	1.1931	2 17.7	1.2788	7 30.2	0.8814	7.610
	3	22.8	0.6715	+1.978	1.1936	2 17.3	1.2784	7 26.1	0.8841	+7.658

Tag	f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
			0h Welt-Zeit								
1941	in 0.s001	in 0."01	h	"	"	in 0."01	23° 26' "	"	in 0."01	in 0.001	
Juli 24	+ 6	+6	3.2	+28.11	−0.36	+10	48.78	−9.53	−4	64	87
25	+ 8	5	1.0	28.25	0.36	+13	48.78	9.51	−1	64	87
26	+ 8	5	22.6	28.39	0.36	+13	48.78	9.50	+2	64	87
27	+ 6	6	20.4	28.52	0.36	+ 9	48.78	9.48	+5	64	87
28	+ 2	7	18.7	28.66	0.37	+ 3	48.78	9.46	+7	64	87
29	− 3	7	17.0	28.80	0.37	− 5	48.78	9.44	+7	64	87
30	− 7	+7	15.3	+28.94	−0.38	−12	48.78	−9.42	+6	65	87
31	−10	7	13.7	29.07	0.38	−17	48.78	9.40	+3	65	87
Aug. 1	−11	7	11.8	29.21	0.39	−18	48.77	9.39	0	65	87
2	− 9	7	9.8	29.35	0.40	−15	48.77	9.37	−4	65	86
3	− 5	7	7.7	29.49	0.41	− 8	48.77	9.35	−6	65	86
4	+ 1	7	5.7	29.63	0.42	+ 1	48.77	9.33	−7	65	86
5	+ 6	+8	3.9	+29.76	−0.44	+10	48.77	−9.31	−7	65	86
6	+10	8	2.1	29.90	0.45	+17	48.77	9.29	−4	65	86
7	+13	8	0.5	30.04	0.47	+21	48.77	9.27	−1	65	86
8	+13	8	23.0	30.18	0.48	+21	48.76	9.25	+2	66	86
9	+10	8	21.5	30.31	0.50	+17	48.76	9.23	+5	66	86
10	+ 6	8	20.1	30.45	0.52	+10	48.76	9.22	+7	66	85
11	+ 2	+7	18.6	+30.59	−0.54	+ 3	48.76	−9.20	+7	66	85
12	− 3	7	16.8	30.73	0.57	− 5	48.76	9.18	+6	66	85
13	− 7	6	14.9	30.86	0.59	−11	48.76	9.16	+4	66	85
14	− 9	6	13.0	31.00	0.62	−15	48.76	9.14	+2	66	85
15	−10	7	11.3	31.14	0.65	−17	48.76	9.12	−1	66	85
16	− 9	7	9.8	31.28	0.67	−15	48.75	9.10	−4	66	85
17	− 7	+8	8.4	+31.41	−0.70	−11	48.75	−9.08	−6	67	85
18	− 3	7	7.1	31.55	0.73	− 5	48.75	9.07	−7	67	84
19	+ 1	7	5.7	31.69	0.77	+ 1	48.75	9.05	−7	67	84
20	+ 5	6	4.0	31.83	0.80	+ 8	48.75	9.03	−5	67	84
21	+ 7	5	1.9	31.96	0.84	+12	48.75	9.01	−2	67	84
22	+ 8	5	23.4	32.10	0.87	+13	48.75	8.99	+1	67	84
23	+ 7	+6	21.2	+32.24	−0.91	+11	48.75	−8.97	+4	67	84
24	+ 3	6	19.3	32.38	0.95	+ 5	48.74	8.96	+6	67	84
25	− 1	7	17.6	32.51	0.99	− 2	48.74	8.94	+7	67	84
26	− 6	7	16.1	32.65	1.03	− 9	48.74	8.92	+6	67	84
27	− 9	7	14.4	32.79	1.07	−15	48.74	8.91	+4	68	84
28	−10	7	12.6	32.93	1.12	−17	48.74	8.89	+1	68	83
29	− 9	+6	10.4	+33.06	−1.16	−15	48.74	−8.88	−3	68	83
30	− 5	6	8.2	33.20	1.21	− 9	48.74	8.86	−6	68	83
31	0	7	6.1	33.34	1.26	− 1	48.74	8.85	−7	68	83
Sept. 1	+ 5	8	4.2	33.48	1.31	+ 8	48.73	8.83	−7	68	83
2	+10	8	2.6	33.61	1.36	+16	48.73	8.82	−5	68	83
3	+12	+8	1.1	+33.75	−1.41	+20	48.73	−8.81	−2	68	83

Tag	0ʰ Welt-Zeit								
	Stern-zeit Greenw.	*t*	*f*	log *g*	*G*	log *h*	*H*	log *i*	*i*
1941	h	s	s		h m		h m		"
Sept. 3	22.8	0.6715	+1.978	1.1936	2 17.3	1.2784	7 26.1	0.8841	+7.658
4	22.8	0.6742	1.983	1.1942	2 16.8	1.2779	7 22.0	0.8867	7.704
5	22.9	0.6770	1.988	1.1948	2 16.4	1.2775	7 17.8	0.8892	7.748
6	23.0	0.6797	1.994	1.1954	2 16.0	1.2772	7 13.7	0.8915	7.789
7	23.0	0.6824	1.999	1.1960	2 15.6	1.2768	7 9.5	0.8937	7.828
8	23.1	0.6852	2.004	1.1966	2 15.2	1.2764	7 5.3	0.8957	7.865
9	23.2	0.6879	+2.009	1.1972	2 14.8	1.2761	7 1.1	0.8976	+7.900
10	23.2	0.6907	2.014	1.1978	2 14.4	1.2758	6 56.9	0.8994	7.933
11	23.3	0.6934	2.019	1.1984	2 14.0	1.2755	6 52.7	0.9011	7.963
12	23.4	0.6961	2.024	1.1990	2 13.6	1.2752	6 48.5	0.9026	7.991
13	23.4	0.6989	2.029	1.1997	2 13.3	1.2750	6 44.3	0.9040	8.016
14	23.5	0.7016	2.034	1.2003	2 12.9	1.2747	6 40.1	0.9052	8.039
15	23.6	0.7043	+2.038	1.2009	2 12.6	1.2745	6 35.9	0.9063	+8.060
16	23.6	0.7071	2.043	1.2015	2 12.3	1.2744	6 31.6	0.9074	8.079
17	23.7	0.7098	2.048	1.2021	2 12.0	1.2742	6 27.4	0.9083	8.096
18	23.8	0.7126	2.053	1.2027	2 11.7	1.2740	6 23.2	0.9090	8.110
19	23.8	0.7153	2.058	1.2034	2 11.4	1.2739	6 18.9	0.9097	8.122
20	23.9	0.7180	2.062	1.2040	2 11.1	1.2738	6 14.6	0.9101	8.131
21	0.0	0.7208	+2.067	1.2047	2 10.8	1.2738	6 10.4	0.9105	+8.138
22	0.0	0.7235	2.072	1.2054	2 10.5	1.2737	6 6.1	0.9107	8.142
23	0.1	0.7262	2.077	1.2061	2 10.3	1.2737	6 1.8	0.9108	8.144
24	0.2	0.7290	2.081	1.2068	2 10.0	1.2737	5 57.6	0.9108	8.143
25	0.2	0.7317	2.086	1.2075	2 9.8	1.2737	5 53.3	0.9107	8.141
26	0.3	0.7345	2.091	1.2082	2 9.6	1.2738	5 49.0	0.9105	8.137
27	0.4	0.7372	+2.096	1.2089	2 9.4	1.2739	5 44.7	0.9101	+8.130
28	0.4	0.7399	2.100	1.2096	2 9.2	1.2740	5 40.5	0.9096	8.120
29	0.5	0.7427	2.105	1.2103	2 9.0	1.2741	5 36.2	0.9089	8.107
30	0.6	0.7454	2.110	1.2110	2 8.8	1.2742	5 31.9	0.9081	8.093
Okt. 1	0.6	0.7481	2.114	1.2118	2 8.6	1.2744	5 27.7	0.9072	8.076
2	0.7	0.7509	2.119	1.2126	2 8.4	1.2746	5 23.4	0.9062	8.057
3	0.8	0.7536	+2.124	1.2134	2 8.2	1.2748	5 19.1	0.9050	+8.035
4	0.8	0.7564	2.129	1.2142	2 8.0	1.2750	5 14.8	0.9037	8.011
5	0.9	0.7591	2.134	1.2150	2 7.8	1.2753	5 10.6	0.9023	7.985
6	1.0	0.7618	2.139	1.2158	2 7.6	1.2756	5 6.3	0.9007	7.956
7	1.0	0.7646	2.144	1.2166	2 7.5	1.2759	5 2.1	0.8990	7.925
8	1.1	0.7673	2.149	1.2174	2 7.3	1.2762	4 57.8	0.8972	7.892
9	1.1	0.7701	+2.154	1.2183	2 7.2	1.2765	4 53.5	0.8952	+7.856
10	1.2	0.7728	2.159	1.2192	2 7.1	1.2769	4 49.3	0.8931	7.818
11	1.3	0.7755	2.164	1.2201	2 6.9	1.2773	4 45.0	0.8908	7.777
12	1.3	0.7783	2.170	1.2210	2 6.8	1.2777	4 40.8	0.8884	7.734
13	1.4	0.7810	2.175	1.2219	2 6.7	1.2781	4 36.6	0.8859	7.689
14	1.5	0.7837	+2.180	1.2228	2 6.5	1.2785	4 32.3	0.8832	+7.641

Tag	0h Welt-Zeit										
	f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
1941	s in 0.001	" in 0.01	h	"	"	" in 0.01	23° 26' "	"	" in 0.01	in 0.001	
Sept. 3	+12	+8	1.1	+33.75	−1.41	+20	48.73	−8.81	−2	68	83
4	+13	8	23.5	33.89	1.46	+21	48.73	8.79	+1	68	83
5	+11	8	22.1	34.03	1.51	+18	48.73	8.78	+4	68	83
6	+ 7	8	20.6	34.17	1.56	+12	48.73	8.77	+6	68	83
7	+ 3	7	19.0	34.30	1.61	+ 5	48.73	8.76	+7	69	83
8	− 2	7	17.3	34.44	1.67	− 3	48.73	8.75	+6	69	82
9	− 6	+6	15.6	+34.58	−1.72	−10	48.72	−8.74	+5	69	82
10	− 9	6	13.7	34.72	1.78	−14	48.72	8.73	+3	69	82
11	−10	7	11.9	34.85	1.83	−17	48.72	8.72	0	69	82
12	−10	7	10.4	34.99	1.89	−17	48.72	8.71	−3	69	82
13	− 8	8	9.0	35.13	1.95	−13	48.72	8.70	−5	69	82
14	− 5	8	7.7	35.27	2.01	− 8	48.72	8.69	−7	69	82
15	− 1	+7	6.4	+35.40	−2.07	− 2	48.72	−8.69	−7	69	82
16	+ 3	6	4.9	35.54	2.12	+ 4	48.71	8.68	−6	69	82
17	+ 6	5	2.9	35.68	2.18	+ 9	48.71	8.67	−4	70	82
18	+ 7	5	0.4	35.82	2.24	+12	48.71	8.67	−1	70	82
19	+ 7	5	21.9	35.95	2.30	+11	48.71	8.67	+3	70	82
20	+ 4	6	19.7	36.09	2.36	+ 7	48.71	8.66	+6	70	82
21	0	+7	18.0	+36.23	−2.42	0	48.71	−8.66	+7	70	82
22	− 4	8	16.5	36.37	2.48	− 7	48.71	8.66	+7	70	82
23	− 8	7	15.0	36.50	2.54	−13	48.71	8.66	+5	70	82
24	−10	7	13.1	36.64	2.60	−17	48.70	8.65	+2	70	82
25	− 9	6	11.0	36.78	2.66	−16	48.70	8.65	−2	70	82
26	− 6	6	8.6	36.92	2.72	−10	48.70	8.65	−5	71	82
27	− 1	+7	6.4	+37.06	−2.78	− 2	48.70	−8.65	−7	71	82
28	+ 5	8	4.5	37.19	2.84	+ 7	48.70	8.66	−7	71	82
29	+10	9	2.9	37.33	2.90	+16	48.70	8.66	−6	71	82
30	+13	9	1.3	37.47	2.96	+21	48.70	8.66	−3	71	82
Okt. 1	+14	9	23.9	37.61	3.02	+23	48.70	8.66	0	71	82
2	+12	9	22.5	37.74	3.08	+20	48.69	8.67	+3	71	82
3	+ 9	+8	21.1	+37.88	−3.14	+15	48.69	−8.67	+6	71	82
4	+ 4	7	19.6	38.02	3.20	+ 7	48.69	8.68	+7	72	82
5	0	7	17.9	38.16	3.26	0	48.69	8.68	+7	72	82
6	− 5	6	16.1	38.29	3.31	− 7	48.69	8.69	+5	72	82
7	− 8	6	14.3	38.43	3.37	−12	48.69	8.70	+3	72	82
8	− 9	6	12.4	38.57	3.42	−15	48.69	8.71	+1	72	82
9	−10	+7	10.8	+38.71	−3.48	−16	48.69	−8.71	−2	72	83
10	− 9	7	9.4	38.84	3.53	−14	48.68	8.72	−5	72	83
11	− 6	8	8.2	38.98	3.58	−10	48.68	8.73	−6	73	83
12	− 3	7	7.0	39.12	3.64	− 5	48.68	8.74	−7	73	83
13	+ 1	7	5.7	39.26	3.69	+ 1	48.68	8.75	−7	73	83
14	+ 4	+6	3.9	+39.39	−3.74	+ 7	48.68	−8.76	−5	73	83

Tag	0h Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1941	h	s	s		h m		h m		"
Okt. 14	1.5	0.7837	+2.180	1.2228	2 6.5	1.2785	4 32.3	0.8832	+7.641
15	1.5	0.7865	2.186	1.2238	2 6.4	1.2790	4 28.1	0.8803	7.591
16	1.6	0.7892	2.191	1.2247	2 6.3	1.2795	4 23.9	0.8773	7.539
17	1.7	0.7920	2.197	1.2257	2 6.2	1.2800	4 19.7	0.8741	7.484
18	1.7	0.7947	2.202	1.2267	2 6.1	1.2805	4 15.5	0.8708	7.427
19	1.8	0.7974	2.208	1.2277	2 6.0	1.2810	4 11.3	0.8673	7.368
20	1.9	0.8002	+2.214	1.2287	2 5.9	1.2815	4 7.1	0.8637	+7.307
21	1.9	0.8029	2.220	1.2297	2 5.8	1.2821	4 2.9	0.8600	7.244
22	2.0	0.8056	2.226	1.2307	2 5.7	1.2826	3 58.8	0.8560	7.178
23	2.1	0.8084	2.232	1.2318	2 5.6	1.2832	3 54.6	0.8519	7.110
24	2.1	0.8111	2.238	1.2329	2 5.5	1.2838	3 50.5	0.8476	7.040
25	2.2	0.8139	2.244	1.2340	2 5.4	1.2844	3 46.3	0.8431	6.968
26	2.3	0.8166	+2.250	1.2351	2 5.3	1.2850	3 42.2	0.8384	+6.893
27	2.3	0.8193	2.256	1.2362	2 5.2	1.2856	3 38.1	0.8335	6.816
28	2.4	0.8221	2.263	1.2373	2 5.1	1.2862	3 34.0	0.8285	6.738
29	2.5	0.8248	2.269	1.2384	2 5.0	1.2868	3 29.9	0.8233	6.657
30	2.5	0.8275	2.276	1.2395	2 4.9	1.2875	3 25.8	0.8178	6.574
31	2.6	0.8303	2.283	1.2407	2 4.8	1.2881	3 21.7	0.8122	6.489
Nov. 1	2.7	0.8330	+2.290	1.2419	2 4.7	1.2887	3 17.6	0.8063	+6.402
2	2.7	0.8358	2.297	1.2431	2 4.6	1.2894	3 13.5	0.8002	6.313
3	2.8	0.8385	2.304	1.2443	2 4.5	1.2900	3 9.5	0.7939	6.222
4	2.9	0.8412	2.311	1.2455	2 4.4	1.2907	3 5.4	0.7874	6.129
5	2.9	0.8440	2.318	1.2467	2 4.2	1.2913	3 1.4	0.7806	6.034
6	3.0	0.8467	2.325	1.2479	2 4.1	1.2920	2 57.4	0.7736	5.937
7	3.1	0.8495	+2.333	1.2491	2 4.0	1.2927	2 53.4	0.7663	+5.839
8	3.1	0.8522	2.340	1.2504	2 3.9	1.2933	2 49.4	0.7588	5.739
9	3.2	0.8549	2.348	1.2516	2 3.8	1.2940	2 45.4	0.7510	5.636
10	3.3	0.8577	2.355	1.2529	2 3.6	1.2946	2 41.4	0.7429	5.532
11	3.3	0.8604	2.363	1.2542	2 3.5	1.2953	2 37.4	0.7346	5.427
12	3.4	0.8631	2.371	1.2555	2 3.3	1.2959	2 33.4	0.7259	5.320
13	3.4	0.8659	+2.379	1.2568	2 3.2	1.2966	2 29.5	0.7169	+5.211
14	3.5	0.8686	2.387	1.2581	2 3.0	1.2972	2 25.5	0.7076	5.100
15	3.6	0.8714	2.395	1.2594	2 2.9	1.2978	2 21.6	0.6978	4.987
16	3.6	0.8741	2.404	1.2608	2 2.7	1.2984	2 17.7	0.6878	4.873
17	3.7	0.8768	2.412	1.2621	2 2.6	1.2990	2 13.7	0.6773	4.757
18	3.8	0.8796	2.420	1.2635	2 2.4	1.2996	2 9.8	0.6665	4.640
19	3.8	0.8823	+2.429	1.2648	2 2.2	1.3002	2 5.9	0.6553	+4.522
20	3.9	0.8850	2.438	1.2661	2 2.0	1.3008	2 2.0	0.6437	4.402
21	4.0	0.8878	2.446	1.2675	2 1.9	1.3014	1 58.2	0.6314	4.280
22	4.0	0.8905	2.455	1.2688	2 1.7	1.3020	1 54.3	0.6188	4.157
23	4.1	0.8933	2.464	1.2702	2 1.5	1.3025	1 50.4	0.6056	4.033
24	4.2	0.8960	+2.473	1.2716	2 1.3	1.3031	1 46.6	0.5920	+3.908

Tag	0h Welt-Zeit										
	f′	g′	G′	Allgemeine Präzession seit 1941.0	Δψ	Δψ′	Mittlere Schiefe	Δε	Δε′	j	k
1941	in 0.ˢ001	in 0.ˢ01	h	″	″	in 0.″01	23° 26′ ″	″	in 0.″01	in 0.001	
Okt. 14	+ 4	+ 6	3.9	+39.39	−3.74	+ 7	48.68	−8.76	−5	73	83
15	+ 6	5	1.5	39.53	3.79	+10	48.68	8.77	−2	73	83
16	+ 6	5	22.5	39.67	3.83	+11	48.68	8.79	+2	73	83
17	+ 4	6	20.1	39.81	3.88	+ 7	48.68	8.80	+5	73	83
18	+ 1	7	18.2	39.94	3.93	+ 1	48.67	8.81	+7	74	83
19	− 4	8	16.8	40.08	3.97	− 6	48.67	8.83	+8	74	83
20	− 8	+ 8	15.3	+40.22	−4.01	−13	48.67	−8.84	+6	74	83
21	−11	8	13.7	40.36	4.06	−18	48.67	8.85	+3	74	84
22	−11	7	11.8	40.49	4.10	−18	48.67	8.87	0	74	84
23	− 8	7	9.5	40.63	4.14	−13	48.67	8.88	−4	74	84
24	− 3	7	7.2	40.77	4.18	− 5	48.67	8.90	−7	75	84
25	+ 3	8	5.1	40.91	4.21	+ 5	48.66	8.92	−8	75	84
26	+ 9	+ 9	3.3	+41.05	−4.25	+14	48.66	−8.93	−7	75	84
27	+13	9	1.7	41.18	4.28	+21	48.66	8.95	−4	75	84
28	+15	10	0.3	41.32	4.31	+24	48.66	8.97	−1	75	84
29	+14	10	22.9	41.46	4.34	+23	48.66	8.98	+3	76	84
30	+11	9	21.6	41.60	4.37	+18	48.66	9.00	+5	76	85
31	+ 7	8	20.2	41.73	4.40	+11	48.66	9.02	+7	76	85
Nov. 1	+ 2	+ 7	18.6	+41.87	−4.43	+ 3	48.66	−9.03	+7	76	85
2	− 3	6	16.8	42.01	4.45	− 5	48.65	9.05	+6	76	85
3	− 6	6	15.0	42.15	4.47	−10	48.65	9.07	+4	77	85
4	− 8	6	13.0	42.28	4.49	−14	48.65	9.09	+1	77	85
5	− 9	6	11.1	42.42	4.51	−15	48.65	9.11	−2	77	85
6	− 8	7	9.7	42.56	4.53	−14	48.65	9.12	−4	77	85
7	− 6	+ 7	8.4	+42.70	−4.55	−11	48.65	−9.14	−6	77	86
8	− 3	7	7.3	42.83	4.56	− 6	48.65	9.16	−7	78	86
9	0	7	6.0	42.97	4.58	0	48.65	9.18	−7	78	86
10	+ 3	6	4.6	43.11	4.59	+ 5	48.64	9.20	−5	78	86
11	+ 6	5	2.5	43.25	4.60	+ 9	48.64	9.21	−3	78	86
12	+ 6	4	23.7	43.38	4.61	+10	48.64	9.23	0	78	86
13	+ 5	+ 5	20.8	+43.52	−4.62	+ 8	48.64	−9.25	+4	79	86
14	+ 2	6	18.6	43.66	4.62	+ 2	48.64	9.27	+6	79	86
15	− 3	8	17.0	43.80	4.62	− 5	48.64	9.29	+8	79	87
16	− 8	9	15.6	43.94	4.63	−12	48.64	9.30	+7	79	87
17	−11	9	14.2	44.07	4.63	−18	48.64	9.32	+5	80	87
18	−12	8	12.6	44.21	4.63	−20	48.63	9.34	+1	80	87
19	−11	+ 8	10.6	+44.35	−4.62	−18	48.63	−9.35	−3	80	87
20	− 6	7	8.4	44.49	4.62	−10	48.63	9.37	−6	81	87
21	0	7	6.1	44.62	4.61	0	48.63	9.39	−7	81	87
22	+ 6	8	4.0	44.76	4.61	+10	48.63	9.40	−7	81	87
23	+12	9	2.3	44.90	4.60	+19	48.63	9.42	−5	81	88
24	+15	+10	0.8	+45.04	−4.59	+24	48.63	−9.43	−2	82	88

Tag	0ʰ Welt-Zeit								
	Sternzeit Greenw.	t	f	log g	G	log h	H	log i	i
1941	h	s	s		h m		h m		"
Nov. 24	4.2	0.8960	+2.473	1.2716	2 1.3	1.3031	1 46.6	0.5920	+3.908
25	4.2	0.8987	2.482	1.2729	2 1.1	1.3036	1 42.7	0.5776	3.781
26	4.3	0.9015	2.491	1.2743	2 0.8	1.3041	1 38.9	0.5626	3.653
27	4.4	0.9042	2.501	1.2757	2 0.6	1.3046	1 35.1	0.5470	3.524
28	4.4	0.9069	2.510	1.2770	2 0.4	1.3051	1 31.2	0.5306	3.393
29	4.5	0.9097	2.520	1.2784	2 0.2	1.3055	1 27.4	0.5135	3.262
30	4.6	0.9124	+2.529	1.2798	1 59.9	1.3060	1 23.6	0.4955	+3.130
Dez. 1	4.6	0.9152	2.539	1.2812	1 59.7	1.3064	1 19.8	0.4767	2.997
2	4.7	0.9179	2.548	1.2826	1 59.4	1.3068	1 16.0	0.4567	2.862
3	4.8	0.9206	2.558	1.2839	1 59.2	1.3072	1 12.2	0.4357	2.727
4	4.8	0.9234	2.568	1.2853	1 58.9	1.3076	1 8.4	0.4135	2.591
5	4.9	0.9261	2.578	1.2867	1 58.6	1.3080	1 4.7	0.3899	2.454
6	5.0	0.9289	+2.588	1.2880	1 58.3	1.3083	1 0.9	0.3646	+2.315
7	5.0	0.9316	2.598	1.2894	1 58.0	1.3086	0 57.1	0.3377	2.176
8	5.1	0.9343	2.608	1.2907	1 57.7	1.3089	0 53.3	0.3090	2.037
9	5.2	0.9371	2.618	1.2921	1 57.4	1.3092	0 49.6	0.2781	1.897
10	5.2	0.9398	2.628	1.2934	1 57.1	1.3095	0 45.8	0.2445	1.756
11	5.3	0.9425	2.638	1.2948	1 56.8	1.3098	0 42.1	0.2082	1.615
12	5.4	0.9453	+2.648	1.2961	1 56.5	1.3100	0 38.3	0.1682	+1.473
13	5.4	0.9480	2.658	1.2975	1 56.2	1.3102	0 34.6	0.1239	1.330
14	5.5	0.9508	2.669	1.2988	1 55.8	1.3104	0 30.8	0.0745	1.187
15	5.6	0.9535	2.679	1.3001	1 55.5	1.3106	0 27.1	0.0187	1.044
16	5.6	0.9562	2.689	1.3014	1 55.2	1.3107	0 23.3	9.9547	0.901
17	5.7	0.9590	2.699	1.3027	1 54.8	1.3108	0 19.6	9.8791	0.757
18	5.7	0.9617	+2.710	1.3040	1 54.5	1.3109	0 15.8	9.7875	+0.613
19	5.8	0.9644	2.720	1.3053	1 54.1	1.3110	0 12.1	9.6702	0.468
20	5.9	0.9672	2.731	1.3065	1 53.7	1.3111	0 8.4	9.5105	0.324
21	5.9	0.9699	2.741	1.3078	1 53.4	1.3111	0 4.6	9.2529	0.179
22	6.0	0.9727	2.751	1.3090	1 53.0	1.3111	0 0.9	8.5315	+0.034
23	6.1	0.9754	2.762	1.3103	1 52.6	1.3111	23 57.1	9.0453n	−0.111
24	6.1	0.9781	+2.772	1.3115	1 52.2	1.3111	23 53.4	9.4065n	−0.255
25	6.2	0.9809	2.783	1.3128	1 51.8	1.3110	23 49.7	9.6021n	0.400
26	6.3	0.9836	2.793	1.3140	1 51.4	1.3110	23 45.9	9.7356n	0.544
27	6.3	0.9863	2.803	1.3152	1 51.0	1.3109	23 42.2	9.8382n	0.689
28	6.4	0.9891	2.814	1.3164	1 50.6	1.3108	23 38.4	9.9206n	0.833
29	6.5	0.9918	2.824	1.3176	1 50.2	1.3106	23 34.7	9.9899n	0.977
30	6.5	0.9946	+2.834	1.3188	1 49.8	1.3105	23 30.9	0.0496n	−1.121
31	6.6	0.9973	2.845	1.3200	1 49.4	1.3103	23 27.2	0.1017n	1.264
32	6.7	1.0000	+2.855	1.3211	1 49.0	1.3101	23 23.4	0.1483n	−1.407

Tag	f'	g'	G'	Allgemeine Präzession seit 1941.0	$\Delta\psi$	$\Delta\psi'$	Mittlere Schiefe	$\Delta\varepsilon$	$\Delta\varepsilon'$	j	k
	0h Welt-Zeit										
1941	in 0.ˢ001	in 0."01				in 0."01	23° 26'		in 0."01	in 0.001	
Nov. 24	+15	+10	0.ʰ8	+45."04	−4."59	+24	48."63	−9."43	−2	82	88
25	+15	10	23.5	45.17	4.58	+25	48.62	9.45	+2	82	88
26	+13	10	22.1	45.31	4.56	+21	48.62	9.46	+5	82	88
27	+ 9	9	20.8	45.45	4.55	+14	48.62	9.48	+6	82	88
28	+ 4	8	19.3	45.59	4.53	+ 6	48.62	9.49	+7	83	88
29	− 1	7	17.6	45.72	4.52	− 2	48.62	9.50	+6	83	88
30	− 5	+ 6	15.7	+45.86	−4.50	− 8	48.62	−9.52	+5	83	88
Dez. 1	− 8	5	13.5	46.00	4.48	−12	48.62	9.53	+2	83	88
2	− 9	6	11.6	46.14	4.46	−14	48.62	9.54	−1	84	88
3	− 8	6	9.9	46.27	4.44	−13	48.61	9.55	−3	84	88
4	− 6	7	8.6	46.41	4.42	−10	48.61	9.56	−5	84	89
5	− 4	7	7.3	46.55	4.39	− 6	48.61	9.57	−7	84	89
6	0	+ 7	6.1	+46.69	−4.37	0	48.61	−9.58	−7	85	89
7	+ 3	6	4.8	46.83	4.34	+ 5	48.61	9.59	−6	85	89
8	+ 6	5	3.1	46.96	4.32	+ 9	48.61	9.60	−4	85	89
9	+ 7	4	0.7	47.10	4.29	+11	48.61	9.61	−1	85	89
10	+ 6	4	22.0	47.24	4.26	+10	48.61	9.61	+2	86	89
11	+ 3	6	19.4	47.38	4.23	+ 5	48.60	9.62	+5	86	89
12	− 1	+ 7	17.6	+47.51	−4.20	− 2	48.60	−9.62	+7	86	89
13	− 6	8	16.0	47.65	4.17	−10	48.60	9.63	+7	87	89
14	−11	9	14.6	47.79	4.14	−17	48.60	9.63	+6	87	89
15	−13	9	13.1	47.93	4.11	−21	48.60	9.64	+3	87	89
16	−13	8	11.5	48.06	4.08	−21	48.60	9.64	−1	87	89
17	−10	8	9.5	48.20	4.05	−16	48.60	9.64	−5	88	89
18	− 4	+ 8	7.4	+48.34	−4.02	− 7	48.60	−9.64	−7	88	89
19	+ 3	8	5.2	48.48	3.99	+ 4	48.59	9.64	−8	88	89
20	+ 9	9	3.2	48.61	3.95	+14	48.59	9.64	−6	88	89
21	+13	9	1.5	48.75	3.92	+21	48.59	9.64	−3	89	89
22	+15	10	0.0	48.89	3.89	+24	48.59	9.64	0	89	89
23	+14	10	22.6	49.03	3.86	+23	48.59	9.64	+4	89	89
24	+11	+ 9	21.2	+49.17	−3.82	+17	48.59	−9.64	+6	89	89
25	+ 6	8	19.8	49.30	3.79	+ 9	48.59	9.63	+7	90	89
26	+ 1	7	18.2	49.44	3.76	+ 1	48.59	9.63	+7	90	89
27	− 4	6	16.5	49.58	3.73	− 6	48.58	9.62	+5	90	89
28	− 7	5	14.3	49.72	3.69	−11	48.58	9.62	+3	90	89
29	− 8	5	12.1	49.85	3.66	−13	48.58	9.61	0	91	89
30	− 8	+ 6	10.1	+49.99	−3.63	−13	48.58	−9.60	−3	91	89
31	− 6	6	8.7	50.13	3.60	−10	48.58	9.60	−5	91	89
32	− 4	+ 7	7.4	+50.27	−3.57	− 6	48.58	−9.59	−6	91	89

α	0h, 12h		1h, 13h		2h, 14h		3h, 15h		4h, 16h		5h, 17h		α
m	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	+A−	+D−	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	0.012	180.39	3.124	174.19	6.023	156.13	8.512	127.43	10.421	90.04	11.619	46.52	0
1	0.064	180.38	3.175	173.99	6.069	155.73	8.549	126.87	10.447	89.35	11.633	45.75	1
2	0.117	180.38	3.225	173.78	6.114	155.34	8.586	126.31	10.473	88.67	11.646	44.99	2
3	0.169	180.37	3.276	173.57	6.159	154.93	8.622	125.74	10.498	87.98	11.659	44.23	3
4	0.222	180.36	3.326	173.35	6.204	154.53	8.659	125.18	10.524	87.30	11.672	43.47	4
5	0.274	180.34	3.377	173.13	6.249	154.12	8.695	124.61	10.549	86.61	11.684	42.70	5
6	0.327	180.32	3.427	172.91	6.294	153.71	8.731	124.04	10.574	85.92	11.696	41.94	6
7	0.379	180.30	3.477	172.68	6.338	153.30	8.767	123.47	10.599	85.22	11.708	41.17	7
8	0.432	180.27	3.528	172.45	6.383	152.88	8.803	122.89	10.624	84.53	11.720	40.40	8
9	0.484	180.24	3.578	172.22	6.427	152.46	8.839	122.31	10.648	83.83	11.732	39.64	9
10	0.536	180.21	3.628	171.98	6.472	152.04	8.874	121.74	10.673	83.14	11.743	38.87	10
11	0.589	180.17	3.678	171.75	6.516	151.62	8.910	121.15	10.697	82.44	11.755	38.10	11
12	0.641	180.13	3.728	171.50	6.560	151.19	8.945	120.57	10.721	81.73	11.766	37.33	12
13	0.694	180.09	3.778	171.26	6.604	150.76	8.980	119.98	10.744	81.03	11.776	36.56	13
14	0.746	180.04	3.827	171.01	6.647	150.32	9.015	119.39	10.768	80.33	11.787	35.79	14
15	0.798	179.99	3.877	170.76	6.691	149.89	9.049	118.80	10.791	79.62	11.797	35.02	15
16	0.851	179.94	3.927	170.50	6.735	149.45	9.084	118.21	10.814	78.92	11.807	34.24	16
17	0.903	179.88	3.976	170.24	6.778	149.01	9.118	117.61	10.837	78.21	11.817	33.47	17
18	0.955	179.82	4.026	169.98	6.821	148.56	9.152	117.02	10.860	77.50	11.827	32.70	18
19	1.008	179.75	4.075	169.72	6.864	148.11	9.186	116.41	10.882	76.79	11.836	31.92	19
20	1.060	179.69	4.124	169.45	6.908	147.66	9.220	115.81	10.904	76.07	11.845	31.15	20
21	1.112	179.62	4.174	169.18	6.951	147.21	9.254	115.21	10.926	75.36	11.854	30.37	21
22	1.164	179.54	4.223	168.90	6.993	146.75	9.287	114.60	10.948	74.64	11.863	29.60	22
23	1.217	179.46	4.272	168.62	7.036	146.29	9.320	113.99	10.970	73.93	11.871	28.82	23
24	1.269	179.38	4.321	168.34	7.078	145.83	9.353	113.38	10.991	73.21	11.880	28.04	24
25	1.321	179.30	4.370	168.06	7.121	145.37	9.386	112.77	11.012	72.49	11.888	27.26	25
26	1.373	179.21	4.419	167.77	7.163	144.90	9.418	112.15	11.033	71.77	11.895	26.49	26
27	1.425	179.12	4.467	167.48	7.205	144.43	9.451	111.54	11.054	71.04	11.903	25.71	27
28	1.477	179.02	4.516	167.18	7.247	143.96	9.484	110.92	11.075	70.32	11.910	24.93	28
29	1.529	178.92	4.565	166.89	7.289	143.48	9.516	110.29	11.095	69.59	11.918	24.15	29
30	1.582	178.82	4.613	166.59	7.330	143.00	9.548	109.67	11.115	68.87	11.924	23.37	30
31	1.634	178.72	4.662	166.28	7.372	142.52	9.580	109.04	11.135	68.14	11.931	22.59	31
32	1.685	178.61	4.710	165.98	7.413	142.04	9.611	108.42	11.155	67.41	11.938	21.81	32
33	1.737	178.49	4.758	165.67	7.455	141.55	9.643	107.79	11.174	66.68	11.944	21.02	33
34	1.789	178.38	4.806	165.35	7.496	141.06	9.674	107.15	11.193	65.95	11.950	20.24	34
35	1.841	178.26	4.854	165.04	7.537	140.57	9.705	106.52	11.213	65.21	11.956	19.46	35
36	1.893	178.14	4.902	164.72	7.577	140.07	9.736	105.88	11.231	64.48	11.961	18.68	36
37	1.944	178.01	4.950	164.40	7.618	139.58	9.767	105.25	11.250	63.74	11.967	17.89	37
38	1.997	177.88	4.998	164.07	7.659	139.08	9.797	104.61	11.269	63.01	11.972	17.11	38
39	2.048	177.75	5.046	163.74	7.699	138.57	9.828	103.96	11.287	62.27	11.977	16.33	39
40	2.100	177.62	5.093	163.41	7.739	138.07	9.858	103.32	11.305	61.53	11.981	15.54	40
41	2.152	177.48	5.141	163.08	7.779	137.56	9.888	102.67	11.323	60.79	11.986	14.76	41
42	2.203	177.33	5.188	162.74	7.819	137.05	9.918	102.02	11.340	60.05	11.990	13.97	42
43	2.255	177.19	5.235	162.40	7.859	136.54	9.947	101.37	11.358	59.30	11.994	13.19	43
44	2.306	177.04	5.282	162.05	7.899	136.02	9.977	100.72	11.375	58.56	11.997	12.40	44
45	2.358	176.89	5.329	161.70	7.938	135.50	10.006	100.07	11.392	57.81	12.001	11.62	45
46	2.409	176.73	5.376	161.35	7.978	134.98	10.035	99.41	11.408	57.07	12.004	10.82	46
47	2.461	176.57	5.423	161.00	8.017	134.46	10.064	98.75	11.425	56.32	12.007	10.05	47
48	2.512	176.41	5.470	160.64	8.056	133.93	10.092	98.09	11.441	55.57	12.010	9.26	48
49	2.563	176.24	5.517	160.28	8.095	133.40	10.121	97.43	11.457	54.82	12.013	8.48	49
50	2.614	176.07	5.563	159.92	8.133	132.87	10.149	96.77	11.473	54.07	12.015	7.69	50
51	2.666	175.90	5.610	159.55	8.172	132.34	10.177	96.10	11.489	53.32	12.017	6.90	51
52	2.717	175.72	5.656	159.19	8.211	131.80	10.205	95.44	11.504	52.57	12.019	6.12	52
53	2.768	175.54	5.703	158.82	8.249	131.26	10.232	94.77	11.519	51.82	12.020	5.33	53
54	2.819	175.36	5.749	158.44	8.287	130.72	10.260	94.10	11.534	51.06	12.022	4.54	54
55	2.870	175.17	5.795	158.06	8.325	130.18	10.287	93.43	11.549	50.31	12.023	3.76	55
56	2.921	174.98	5.841	157.68	8.363	129.63	10.314	92.75	11.563	49.55	12.024	2.97	56
57	2.972	174.79	5.887	157.30	8.400	129.09	10.341	92.08	11.578	48.79	12.025	2.18	57
58	3.023	174.60	5.932	156.91	8.438	128.54	10.368	91.40	11.592	48.04	12.025	1.40	58
59	3.073	174.40	5.978	156.52	8.475	127.98	10.394	90.72	11.606	47.28	12.026	0.61	59
60	3.124	174.19	6.023	156.13	8.512	127.43	10.421	90.04	11.619	46.52	12.026	—	60

α	6h, 18h		7h, 19h		8h, 20h		9h, 21h		10h, 22h		11h, 23h		α
m	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	+A−	−D+	m
	s	"	s	"	s	"	s	"	s	"	s	"	
0	12.026	0.18	11.613	46.86	10.409	90.35	8.495	127.68	6.003	156.31	3.101	174.29	0
1	12.026	0.97	11.599	47.62	10.382	91.03	8.458	128.23	5.957	156.70	3.050	174.49	1
2	12.025	1.75	11.585	48.38	10.356	91.71	8.421	128.79	5.911	157.09	2.999	174.68	2
3	12.025	2.54	11.571	49.14	10.329	92.38	8.383	129.34	5.866	157.47	2.949	174.88	3
4	12.024	3.33	11.557	49.89	10.302	93.06	8.345	129.88	5.820	157.86	2.898	175.07	4
5	12.023	4.12	11.542	50.65	10.275	93.73	8.307	130.43	5.774	158.24	2.847	175.26	5
6	12.021	4.90	11.527	51.40	10.247	94.40	8.269	130.97	5.728	158.61	2.796	175.44	6
7	12.020	5.69	11.512	52.16	10.220	95.07	8.231	131.51	5.682	158.99	2.745	175.63	7
8	12.018	6.48	11.497	52.91	10.192	95.74	8.193	132.05	5.635	159.36	2.694	175.80	8
9	12.016	7.26	11.481	53.66	10.164	96.41	8.154	132.58	5.589	159.72	2.642	175.98	9
10	12.014	8.05	11.466	54.41	10.136	97.07	8.116	133.12	5.542	160.09	2.591	176.15	10
11	12.011	8.83	11.450	55.16	10.108	97.74	8.077	133.65	5.496	160.45	2.540	176.32	11
12	12.009	9.62	11.434	55.91	10.079	98.40	8.038	134.17	5.449	160.81	2.489	176.48	12
13	12.006	10.41	11.417	56.66	10.050	99.05	7.999	134.70	5.402	161.16	2.437	176.64	13
14	12.003	11.19	11.401	57.41	10.022	99.71	7.960	135.22	5.355	161.51	2.386	176.80	14
15	11.999	11.98	11.384	58.15	9.992	100.37	7.920	135.74	5.308	161.86	2.334	176.96	15
16	11.996	12.76	11.367	58.90	9.963	101.02	7.881	136.26	5.261	162.21	2.283	177.11	16
17	11.992	13.55	11.350	59.64	9.934	101.67	7.841	136.77	5.214	162.55	2.231	177.25	17
18	11.988	14.33	11.332	60.38	9.904	102.32	7.801	137.28	5.166	162.89	2.180	177.40	18
19	11.983	15.12	11.314	61.13	9.874	102.97	7.761	137.79	5.119	163.23	2.128	177.54	19
20	11.979	15.90	11.296	61.86	9.844	103.61	7.721	138.30	5.071	163.56	2.077	177.68	20
21	11.974	16.68	11.278	62.60	9.814	104.26	7.681	138.80	5.024	163.89	2.025	177.81	21
22	11.969	17.47	11.260	63.34	9.783	104.90	7.640	139.31	4.976	164.22	1.973	177.94	22
23	11.964	18.26	11.242	64.08	9.753	105.54	7.600	139.80	4.928	164.54	1.921	178.07	23
24	11.959	19.03	11.223	64.81	9.722	106.17	7.559	140.30	4.880	164.86	1.869	178.19	24
25	11.953	19.82	11.204	65.55	9.691	106.81	7.518	140.79	4.833	165.18	1.818	178.31	25
26	11.947	20.60	11.185	66.28	9.660	107.44	7.477	141.28	4.784	165.50	1.766	178.43	26
27	11.941	21.38	11.165	67.01	9.629	108.07	7.436	141.77	4.736	165.81	1.714	178.55	27
28	11.935	22.16	11.146	67.74	9.597	108.70	7.394	142.26	4.688	166.12	1.662	178.66	28
29	11.928	22.94	11.126	68.47	9.565	109.33	7.353	142.74	4.639	166.42	1.610	178.76	29
30	11.921	23.72	11.106	69.20	9.533	109.95	7.311	143.22	4.591	166.72	1.558	178.87	30
31	11.914	24.50	11.086	69.92	9.501	110.58	7.270	143.70	4.542	167.02	1.506	178.97	31
32	11.907	25.28	11.065	70.65	9.469	111.20	7.228	144.17	4.494	167.32	1.454	179.06	32
33	11.900	26.06	11.044	71.37	9.437	111.82	7.186	144.64	4.445	167.61	1.402	179.16	33
34	11.892	26.84	11.024	72.09	9.404	112.43	7.144	145.11	4.396	167.90	1.350	179.25	34
35	11.884	27.62	11.002	72.81	9.371	113.05	7.101	145.58	4.348	168.19	1.297	179.33	35
36	11.876	28.40	10.981	73.53	9.338	113.66	7.059	146.04	4.299	168.47	1.245	179.42	36
37	11.867	29.17	10.960	74.25	9.305	114.27	7.016	146.50	4.249	168.75	1.193	179.50	37
38	11.859	29.95	10.938	74.97	9.272	114.88	6.974	146.96	4.200	169.03	1.141	179.57	38
39	11.850	30.72	10.916	75.68	9.238	115.48	6.931	147.42	4.151	169.30	1.089	179.65	39
40	11.841	31.50	10.894	76.40	9.205	116.09	6.888	147.87	4.102	169.57	1.036	179.72	40
41	11.832	32.28	10.872	77.11	9.171	116.69	6.845	148.32	4.052	169.84	0.984	179.78	41
42	11.822	33.05	10.849	77.82	9.137	117.29	6.802	148.76	4.003	170.10	0.932	179.84	42
43	11.813	33.82	10.826	78.53	9.103	117.88	6.758	149.21	3.953	170.36	0.879	179.90	43
44	11.803	34.60	10.803	79.24	9.068	118.48	6.715	149.65	3.904	170.62	0.827	179.96	44
45	11.792	35.37	10.780	79.94	9.034	119.07	6.671	150.09	3.854	170.87	0.775	180.01	45
46	11.782	36.14	10.757	80.65	8.999	119.66	6.627	150.52	3.804	171.12	0.722	180.06	46
47	11.771	36.91	10.733	81.35	8.964	120.25	6.584	150.95	3.755	171.37	0.670	180.11	47
48	11.761	37.68	10.710	82.05	8.929	120.84	6.540	151.38	3.705	171.61	0.617	180.15	48
49	11.749	38.45	10.686	82.75	8.894	121.42	6.496	151.81	3.655	171.85	0.565	180.19	49
50	11.738	39.22	10.661	83.45	8.858	122.00	6.451	152.23	3.605	172.09	0.513	180.22	50
51	11.727	39.98	10.637	84.15	8.822	122.58	6.407	152.65	3.555	172.32	0.460	180.25	51
52	11.715	40.75	10.613	84.84	8.787	123.15	6.363	153.07	3.505	172.56	0.408	180.28	52
53	11.703	41.52	10.588	85.54	8.751	123.73	6.318	153.49	3.454	172.78	0.355	180.31	53
54	11.691	42.29	10.563	86.23	8.715	124.30	6.273	153.90	3.404	173.01	0.303	180.33	54
55	11.678	43.05	10.538	86.92	8.679	124.87	6.228	154.31	3.354	173.23	0.250	180.35	55
56	11.666	43.81	10.512	87.61	8.642	125.44	6.183	154.71	3.303	173.45	0.198	180.36	56
57	11.653	44.58	10.487	88.30	8.606	126.00	6.138	155.12	3.253	173.66	0.146	180.37	57
58	11.640	45.34	10.461	88.98	8.569	126.56	6.093	155.52	3.202	173.87	0.093	180.38	58
59	11.627	46.10	10.435	89.67	8.532	127.12	6.048	155.91	3.152	174.08	0.041	180.39	59
60	11.613	46.86	10.409	90.35	8.495	127.68	6.003	156.31	3.101	174.29	—	180.39	60

Reduktionsgrößen 1941

Übertragung von Sternörtern vom mittleren Äquinoktium 1941.0 auf das Normaläquinoktium 1950.0

α	B	α	α	B	α
h m	s	h m	h m	s	h m
0 0	+27.659	12 0	6 0	+27.659	18 0
10	27.658	10	10	27.659	10
20	27.658	20	20	27.659	20
30	27.658	30	30	27.659	30
40	27.658	40	40	27.660	40
50	27.658	50	50	27.660	50
1 0	+27.657	13 0	7 0	+27.660	19 0
10	27.657	10	10	27.660	10
20	27.657	20	20	27.660	20
30	27.657	30	30	27.661	30
40	27.657	40	40	27.661	40
50	27.657	50	50	27.661	50
2 0	+27.656	14 0	8 0	+27.661	20 0
10	27.656	10	10	27.661	10
20	27.656	20	20	27.661	20
30	27.656	30	30	27.661	30
40	27.656	40	40	27.661	40
50	27.656	50	50	27.661	50
3 0	+27.656	15 0	9 0	+27.661	21 0
10	27.656	10	10	27.661	10
20	27.656	20	20	27.661	20
30	27.656	30	30	27.661	30
40	27.656	40	40	27.661	40
50	27.656	50	50	27.661	50
4 0	+27.656	16 0	10 0	+27.661	22 0
10	27.657	10	10	27.661	10
20	27.657	20	20	27.661	20
30	27.657	30	30	27.661	30
40	27.657	40	40	27.660	40
50	27.657	50	50	27.660	50
5 0	+27.657	17 0	11 0	+27.660	23 0
10	27.658	10	10	27.660	10
20	27.658	20	20	27.660	20
30	27.658	30	30	27.659	30
40	27.658	40	40	27.659	40
50	27.658	50	50	27.659	50
6 0	+27.659	18 0	12 0	+27.659	24 0

C	ΔC	P	C	ΔC	P
s	s		s	s	
0	e 0.000	e 0.0000	350	e 0.076	e 0.1909
10	000	0055	360	082	1963
20	000	0109	370	089	2018
30	000	0164	380	097	2072
40	000	0218	390	104	2127
50	e 0.000	e 0.0273	400	e 0.113	e 0.2181
60	000	0327	410	121	2236
70	001	0382	420	131	2290
80	001	0436	430	140	2345
90	001	0491	440	150	2399
100	e 0.002	e 0.0545	450	e 0.161	e 0.2454
110	002	0600	460	172	2508
120	003	0654	470	183	2563
130	004	0709	480	195	2617
140	005	0764	490	207	2672
150	e 0.006	e 0.0818	500	e 0.220	e 0.2726
160	007	0873	510	234	2781
170	009	0927	520	248	2835
180	010	0982	530	262	2890
190	012	1036	540	277	2944
200	e 0.014	e 0.1091	550	e 0.293	e 0.2999
210	016	1145	560	309	3053
220	019	1200	570	326	3107
230	022	1254	580	344	3162
240	025	1309	590	362	3216
250	e 0.028	e 0.1363	600	e 0.380	e 0.3271
260	031	1418	610	400	3325
270	035	1473	620	420	3380
280	039	1527	630	440	3434
290	043	1582	640	462	3489
300	e 0.048	e 0.1636	650	e 0.484	e 0.3543
310	053	1691	660	506	3598
320	058	1745	670	529	3652
330	063	1800	680	553	3707
340	069	1854	690	578	3761
350	e 0.076	e 0.1909	700	e 0.604	e 0.3815

e bedeutet: Vorzeichen entgegengesetzt dem Vorzeichen des Arguments.

$$\alpha_{1950} = \alpha_{1941} + B + C + \Delta C, \text{ wobei } C = A.\,\mathrm{tg}\,(\delta_{1941} + D)$$
$$\delta_{1950} = \delta_{1941} + D + R, \text{ wobei } R = A.\,P$$

A und *D* sind aus der Tafel S. 274* u. 275* mit dem Argument α_{1941} zu entnehmen. Für die Werte von α zwischen 0^h und 12^h gelten die Vorzeichen zur Linken, für die Werte von α zwischen 12^h und 24^h die Vorzeichen zur Rechten. *B*, Δ*C* und *P* sind in der obenstehenden Tafel enthalten. Die Vorzeichen von Δ*C* und *P* sind dem Vorzeichen von *C* entgegengesetzt.

Finsternisse, Sternbedeckungen, Mösting A, Trabanten

Konstellationen, Hilfstafeln

1941

Sonnen- und Mondfinsternisse 1941

Im Jahre 1941 finden zwei Sonnenfinsternisse und zwei Mondfinsternisse statt.

I. Partielle Mondfinsternis 1941 März 13 unsichtbar in Berlin.

Opposition in Rektaszension . . . . März 13, $12^h\,23^m\,27^s.9$ Welt-Zeit

Rektaszension des Mondes	$11^h\,32^m\,36^s.37$
Stündliche Änderung	2 21.71
Rektaszension der Sonne	23 32 36.37
Stündliche Änderung	9.17
Deklination des Mondes	$+ 2°\ 3'\ 57''.4$
Stündliche Änderung	— 11 32.0
Deklination der Sonne	— 2 57 36.7
Stündliche Änderung	+ 59.0
Äquatorialhorizontalparallaxe des Mondes .	$1°\ 0'\ 36''.1$
„ der Sonne . .	8.9
Halbmesser des Mondes	$16'\ 30''.0$
„ der Sonne	16 5.2

Eintritt des Mondes in den Halbschatten . .	März 13,	$9^h\ 37^m.6$	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	„	10 55.1	„
Mitte der Finsternis	„	11 55.4	„
Austritt des Mondes aus dem Kernschatten	„	12 55.8	„
Austritt des Mondes aus dem Halbschatten	„	14 13.1	„

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

162° 10′ westliche Länge von Greenwich,	2° 21′ nördliche Breite
191 14 „ „ „ „	1 58 „ „

Positionswinkel des Eintritts . . . . = 52°

„ „ Austritts . . . . = 343

Größe der Finsternis in Einheiten des Monddurchmessers . . = 0.328

Der Anfang der Finsternis ist sichtbar in Nordamerika mit Ausnahme des äußersten Nordostens, im westlichen Teil von Südamerika, im Stillen Ozean, in Australien und im Osten Asiens. Das Ende ist sichtbar im westlichen Teil von Nordamerika, im Stillen Ozean, in Australien, im Osten Asiens und im östlichen Teil des Indischen Ozeans.

II. Ringförmige Sonnenfinsternis 1941 März 27
unsichtbar in Berlin.

Konjunktion in Rektaszension . . . . . . März 27, $19^h 48^m 55^s.4$ Welt-Zeit

	h m s
Rektaszension des Mondes	0 24 47.72
Stündliche Änderung	1 54.09
Rektaszension der Sonne	0 24 47.72
Stündliche Änderung	9.10
	° ′ ″
Deklination des Mondes	+ 2 12 18.9
Stündliche Änderung	+ 9 16.4
Deklination der Sonne	+ 2 40 51.6
Stündliche Änderung	+ 58.7
	′ ″
Äquatorialhorizontalparallaxe des Mondes .	54 18.0
„ der Sonne . .	8.8
	′ ″
Halbmesser des Mondes	14 47.0
„ der Sonne	16 1.3

	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
	h m	° ′	° ′
Anfang der Finsternis.	März 27, 17 12.3	164 46	−36 23
Beginn der zentralen Verfinsterung.	„ 18 25.8	182 9	−47 54
Zentrale Verfinsterung im wahren Mittag	„ 19 48.9	115 53	−29 19
Ende der zentralen Verfinsterung .	„ 21 49.8	56 43	−12 43
Ende der Finsternis	„ 23 3.3	74 32	− 1 9

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringförm. Verfinst.	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. ringförm. Verfinst.
h m	° ′	° ′	m s	h m	° ′	° ′	m s
18 25.8	182 9	−47 54	—	20 0	112 52.2	−27 26.2	7 39.8
18 30	162 33.9	−46 3.3	5 52.3	20 20	107 41.8	−24 10.9	7 40.1
18 40	148 22.0	−43 16.0	6 18.1	20 40	102 25.9	−21 6.4	7 32.2
18 50	140 3.2	−40 51.8	6 36.8	21 0	96 30.4	−18 12.4	7 15.9
19 0	133 59.0	−38 39.4	6 52.1	21 20	88 56.2	−15 30.5	6 50.5
19 20	125 6.5	−34 36.3	7 15.8	21 30	83 49.6	−14 15.9	6 33.6
19 40	118 27.5	−30 53.7	7 31.6	21 40	76 37.6	−13 9.0	6 12.1
20 0	112 52.2	−27 26.2	7 39.8	21 49.8	56 43	−12 43	—

Die Finsternis ist sichtbar auf Neuseeland, in Polynesien, im südlichen Teil des Stillen Ozeans, in Mittelamerika, auf den Antillen und in Südamerika mit Ausnahme des östlichsten Teiles.

Elemente der ringförmigen Sonnenfinsternis 1941 März 27

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
17 10	−1.282910	−0.932655	8.663345	9.999539	76 8 10.6	+0.568671	+0.022641
20	1.202197	0.907144	8.663781	9.999538	78 38 13.2	0.568689	0.022658
30	1.121481	0.881633	8.664217	9.999537	81 8 15.8	0.568706	0.022675
40	1.040763	0.856121	8.664652	9.999536	83 38 18.4	0.568723	0.022692
50	0.960044	0.830608	8.665087	9.999535	86 8 21.0	0.568739	0.022708
18 0	−0.879323	−0.805094	8.665522	9.999534	88 38 23.6	+0.568754	+0.022723
10	0.798600	0.779580	8.665956	9.999533	91 8 26.2	0.568769	0.022738
20	0.717876	0.754065	8.666390	9.999532	93 38 28.9	0.568783	0.022752
30	0.637151	0.728550	8.666823	9.999531	96 8 31.5	0.568797	0.022766
40	0.556424	0.703034	8.667256	9.999530	98 38 34.1	0.568810	0.022779
50	0.475696	0.677518	8.667688	9.999529	101 8 36.7	0.568823	0.022792
19 0	−0.394967	−0.652002	8.668120	9.999528	103 38 39.3	+0.568835	+0.022804
10	0.314237	0.626485	8.668551	9.999527	106 8 41.9	0.568847	0.022816
20	0.233506	0.600967	8.668982	9.999526	108 38 44.5	0.568858	0.022827
30	0.152774	0.575450	8.669414	9.999525	111 8 47.1	0.568868	0.022837
40	−0.072042	0.549933	8.669844	9.999524	113 38 49.7	0.568878	0.022847
50	+0.008691	0.524416	8.670274	9.999523	116 8 52.4	0.568887	0.022856
20 0	+0.089424	−0.498899	8.670703	9.999523	118 38 55.0	+0.568896	+0.022865
10	0.170157	0.473382	8.671131	9.999522	121 8 57.6	0.568904	0.022873
20	0.250889	0.447865	8.671560	9.999521	123 39 0.2	0.568912	0.022881
30	0.331621	0.422348	8.671988	9.999520	126 9 2.8	0.568919	0.022888
40	0.412352	0.396832	8.672415	9.999519	128 39 5.4	0.568926	0.022895
50	0.493082	0.371315	8.672842	9.999518	131 9 8.0	0.568932	0.022901
21 0	+0.573811	−0.345798	8.673269	9.999517	133 39 10.6	+0.568937	+0.022906
10	0.654539	0.320282	8.673695	9.999516	136 9 13.2	0.568942	0.022911
20	0.735265	0.294767	8.674121	9.999515	138 39 15.8	0.568946	0.022915
30	0.815990	0.269252	8.674546	9.999514	141 9 18.4	0.568950	0.022919
40	0.896713	0.243737	8.674971	9.999513	143 39 21.1	0.568954	0.022922
50	0.977434	0.218222	8.675396	9.999512	146 9 23.7	0.568957	0.022925
22 0	+1.058152	−0.192709	8.675820	9.999511	148 39 26.3	+0.568959	+0.022927
10	1.138868	0.167196	8.676244	9.999510	151 9 28.9	0.568961	0.022928
20	1.219581	0.141684	8.676667	9.999509	153 39 31.5	0.568962	0.022929
30	1.300291	0.116172	8.677090	9.999508	156 9 34.1	0.568963	0.022930
40	1.380998	0.090661	8.677512	9.999508	158 39 36.7	0.568963	0.022930
50	1.461701	0.065151	8.677934	9.999507	161 9 39.3	0.568963	0.022930
23 0	+1.542401	−0.039641	8.678356	9.999506	163 39 41.9	+0.568962	+0.022929
10	+1.623098	−0.014132	8.678778	9.999505	166 9 44.6	+0.568962	+0.022928

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
17 0	+0.0080710	+0.0025509	7.67072	7.66855
18 0	0.0080722	0.0025514	7.67071	7.66854
19 0	0.0080730	0.0025516	7.67071	7.66854
20 0	0.0080733	0.0025517	7.67070	7.66853
21 0	0.0080729	0.0025516	7.67070	7.66853
22 0	0.0080717	0.0025513	7.67069	7.66852
23 0	0.0080698	0.0025509	7.67069	7.66852
24 0	+0.0080672	+0.0025502	7.67068	7.66851

III. Partielle Mondfinsternis 1941 September 5 sichtbar in Berlin.

Opposition in Rektaszension	Sept. 5,	18ʰ 20ᵐ 24ˢ.7	Welt-Zeit

Rektaszension des Mondes	22ʰ 56ᵐ 29ˢ.21
Stündliche Änderung	2 2.91
Rektaszension der Sonne	10 56 29.21
Stündliche Änderung	9.02
Deklination des Mondes	− 5° 48′ 48″.4
Stündliche Änderung	+ 9 31.2
Deklination der Sonne	+ 6 45 58.6
Stündliche Änderung	− 55.7
Äquatorialhorizontalparallaxe des Mondes . .	56′ 7″.9
„ der Sonne . .	8.7
Halbmesser des Mondes	15′ 17″.0
„ der Sonne	15 52.1

Eintritt des Mondes in den Halbschatten . .	Sept. 5,	15ʰ 25ᵐ.3	Welt-Zeit
Eintritt des Mondes in den Kernschatten .	„	17 18.9	„
Mitte der Finsternis	„	17 46.9	„
Austritt des Mondes aus dem Kernschatten	„	18 14.6	„
Austritt des Mondes aus dem Halbschatten	„	20 8.3	„

Der Mond steht zu den Zeiten der ersten und letzten Berührung mit dem Kernschatten im Zenit der Orte, deren geographische Lage ist:

260° 33′ westliche Länge von Greenwich,	5° 59′ südliche Breite
274 2 „ „ „ „	5 50 „ „

Positionswinkel des Eintritts . . . . =149°
„ „ Austritts . . . . =177

Größe der Finsternis in Einheiten des Monddurchmessers . . =0.056

Der Anfang der Finsternis ist sichtbar im äußersten Nordwesten von Nordamerika, in der westlichen Hälfte des Stillen Ozeans, in Australien, im Indischen Ozean, in Asien, im Osten Europas und in Afrika mit Ausnahme des nordwestlichen Teiles. Das Ende ist sichtbar im westlichen Teil des Stillen Ozeans, in Australien, im Indischen Ozean, in Asien, in Europa mit Ausnahme des südwestlichen Teiles und in Afrika mit Ausnahme des nordwestlichen Teiles.

Sonnen- und Mondfinsternisse 1941

IV. Totale Sonnenfinsternis 1941 September 21 unsichtbar in Berlin.

Konjunktion in Rektaszension . . .	Sept. 21,	4ʰ 17ᵐ 48ˢ.6 Welt-Zeit

Rektaszension des Mondes	11ʰ 51ᵐ 52ˢ.74
Stündliche Änderung	2 17.90
Rektaszension der Sonne	11 51 52.74
Stündliche Änderung	8.98
Deklination des Mondes	+ 1° 21′ 55″.7
Stündliche Änderung	— 11 18.4
Deklination der Sonne	+ 0 52 47.8
Stündliche Änderung	— 58.4
Äquatorialhorizontalparallaxe des Mondes	59′ 47″.9
„ der Sonne	8.8
Halbmesser des Mondes	16′ 16″.8
„ der Sonne	15 55.9

		Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite
		h m	° ′	° ′
Anfang der Finsternis	Sept. 21,	1 58.4	301 56	+35 33
Beginn der zentralen Verfinsterung	„	3 0.2	317 39	+45 45
Zentrale Verfinsterung im wahren Mittag	„	4 17.8	246 8	+30 18
Ende der zentralen Verfinsterung	„	6 7.2	183 21	+ 9 58
Ende der Finsternis	„	7 8.8	198 55	— 0 14

Verlauf der Zentrallinie

Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität	Welt-Zeit	Westl. Länge v. Greenwich	Geogr. Breite	Dauer d. Totalität
h m	° ′	° ′	m s	h m	° ′	° ′	m s
3 0.2	317 39	+45 45	—	4 30	242 3.0	+27 59.7	3 21.5
3 5	295 34.5	+44 57.8	1 41.8	4 40	238 50.3	+26 7.4	3 21.5
3 10	287 0.8	+43 56.7	1 55.9	4 50	235 39.7	+24 16.2	3 19.3
3 20	275 55.8	+41 51.7	2 17.3	5 0	232 26.2	+22 26.0	3 14.7
3 30	268 11.6	+39 47.3	2 34.1	5 10	229 4.2	+20 36.5	3 8.0
3 40	262 8.8	+37 44.7	2 47.9	5 20	225 26.6	+18 47.6	2 58.9
3 50	257 7.6	+35 44.1	2 59.2	5 30	221 23.6	+16 59.1	2 47.5
4 0	252 47.5	+33 45.4	3 8.1	5 40	216 38.9	+15 10.4	2 33.4
4 10	248 55.6	+31 48.6	3 14.8	5 50	210 39.7	+13 21.2	2 16.0
4 20	245 23.0	+29 53.4	3 19.3	6 0	201 51.1	+11 29.7	1 53.0
4 30	242 3.0	+27 59.7	3 21.5	6 7.2	183 21	+ 9 58	—

Die Finsternis ist sichtbar im Osten Europas, im Roten Meer, in Asien auf den Sunda-Inseln und auf den Philippinen, auf Neu-Guinea, im nördlichsten Teil Australiens, in Japan, im nordwestlichen Teil des Stillen Ozeans und im äußersten Westen von Alaska.

Ende der Finsternis für 100ᵐ östliche Länge von Greenwich

Geogr. Breite	Welt-Zeit	P	Q	Geogr. Breite	Welt-Zeit	P	Q
°	h m	°	°	°	h m	°	°
53	4 3.2	119.3	156.5	57	4 6.1	125.4	158.6
54	4 3.9	120.9	157.0	58	4 6.8	126.9	159.1
55	4 4.6	122.4	157.5	59	4 7.5	128.4	159.6
56	4 5.4	123.9	158.1	60	4 8.2	129.9	160.0

Sonnen- und Mondfinsternisse 1941

Elemente der totalen Sonnenfinsternis 1941 September 21

Welt-Zeit	x	y	log sin d	log cos d	μ	$l^{(a)}$	$l^{(i)}$
h m					° ′ ″		
1 50	−1.330594	+0.915347	8.204534	9.999945	209 10 18.5	+0.540182	−0.005706
2 0	−1.240591	+0.886479	8.203287	9.999945	211 40 21.5	+0.540177	−0.005711
10	1.150585	0.857608	8.202037	9.999945	214 10 24.5	0.540172	0.005717
20	1.060576	0.828734	8.200783	9.999945	216 40 27.4	0.540165	0.005723
30	0.970565	0.799857	8.199525	9.999945	219 10 30.4	0.540158	0.005730
40	0.880550	0.770977	8.198264	9.999946	221 40 33.4	0.540151	0.005738
50	0.790533	0.742095	8.197000	9.999946	224 10 36.4	0.540142	0.005746
3 0	−0.700513	+0.713210	8.195731	9.999946	226 40 39.4	+0.540133	−0.005755
10	0.610491	0.684322	8.194458	9.999946	229 10 42.4	0.540123	0.005765
20	0.520467	0.655432	8.193182	9.999947	231 40 45.4	0.540113	0.005775
30	0.430442	0.626539	8.191902	9.999947	234 10 48.4	0.540102	0.005786
40	0.340415	0.597644	8.190618	9.999947	236 40 51.3	0.540090	0.005798
50	0.250386	0.568747	8.189330	9.999948	239 10 54.3	0.540078	0.005810
4 0	−0.160356	+0.539848	8.188039	9.999948	241 40 57.3	+0.540065	−0.005823
10	−0.070324	0.510947	8.186744	9.999948	244 11 0.3	0.540051	0.005837
20	+0.019709	0.482044	8.185445	9.999949	246 41 3.3	0.540037	0.005851
30	0.109742	0.453138	8.184142	9.999949	249 11 6.3	0.540022	0.005866
40	0.199776	0.424231	8.182835	9.999949	251 41 9.3	0.540006	0.005882
50	0.289810	0.395322	8.181525	9.999950	254 11 12.2	0.539989	0.005898
5 0	+0.379844	+0.366411	8.180210	9.999950	256 41 15.2	+0.539972	−0.005915
10	0.469878	0.337498	8.178891	9.999950	259 11 18.2	0.539954	0.005933
20	0.559911	0.308584	8.177569	9.999951	261 41 21.2	0.539936	0.005952
30	0.649943	0.279668	8.176242	9.999951	264 11 24.2	0.539916	0.005971
40	0.739974	0.250751	8.174911	9.999951	266 41 27.2	0.539896	0.005991
50	0.830004	0.221832	8.173576	9.999952	269 11 30.1	0.539876	0.006011
6 0	+0.920032	+0.192912	8.172237	9.999952	271 41 33.1	+0.539854	−0.006032
10	1.010059	0.163991	8.170894	9.999953	274 11 36.1	0.539832	0.006054
20	1.100084	0.135069	8.169547	9.999953	276 41 39.1	0.539810	0.006076
30	1.190106	0.106145	8.168195	9.999953	279 11 42.1	0.539787	0.006099
40	1.280126	0.077220	8.166839	9.999954	281 41 45.1	0.539763	0.006123
50	1.370144	0.048294	8.165479	9.999954	284 11 48.1	0.539738	0.006148
7 0	+1.460159	+0.019367	8.164114	9.999954	286 41 51.0	+0.539713	−0.006173
10	+1.550171	−0.009561	8.162745	9.999954	289 11 54.0	+0.539687	−0.006199

Welt-Zeit	x'	y'	log tang $f^{(a)}$	log tang $f^{(i)}$
h m				
1 0	+0.0089980	−0.0028847	7.66814	7.66597
2 0	0.0090004	0.0028869	7.66814	7.66598
3 0	0.0090021	0.0028886	7.66815	7.66598
4 0	0.0090031	0.0028900	7.66815	7.66598
5 0	0.0090034	0.0028912	7.66816	7.66599
6 0	0.0090028	0.0028921	7.66816	7.66599
7 0	0.0090014	0.0028927	7.66817	7.66600
8 0	+0.0089990	−0.0028933	7.66817	7.66600

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT I

		h	m	
Jan.	0	20	19.4	A.
	2	14	48.4	A.
	4	9	17.2	A.
	6	3	46.2	A.
	7	22	15.0	A.
	9	16	44.0	A.
	11	11	12.9	A.
	13	5	41.8	A.
	15	0	10.7	A.
	16	18	39.6	A.
	18	13	8.5	A.
	20	7	37.5	A.
	22	2	6.3	A.
	23	20	35.3	A.
	25	15	4.1	A.
	27	9	33.1	A.
	29	4	1.9	A.
	30	22	30.9	A.
Febr.	1	16	59.8	A.
	3	11	28.7	A.
	5	5	57.5	A.
	7	0	26.4	A.
	8	18	55.3	A.
	10	13	24.2	A.
	12	7	53.0	A.
	14	2	22.0	A.
	15	20	50.8	A.
	17	15	19.7	A.
	19	9	48.5	A.
	21	4	17.4	A.
	22	22	46.2	A.
	24	17	15.1	A.
	26	11	43.9	A.
	28	6	12.8	A.
März	2	0	41.6	A.
	3	19	10.4	A.
	5	13	39.2	A.
	7	8	8.1	A.
	9	2	36.9	A.
	10	21	5.7	A.
	12	15	34.5	A.
	14	10	3.3	A.
	16	4	32.1	A.
	17	23	0.9	A.
	19	17	29.7	A.
	21	11	58.5	A.

TRABANT I

		h	m	
März	23	6	27.3	A.
	25	0	56.0	A.
	26	19	24.8	A.
	28	13	53.6	A.
	30	8	22.3	A.
April	1	2	51.0	A.
	2	21	19.8	A.
	4	15	48.5	A.
	6	10	17.3	A.
	8	4	46.0	A.
	9	23	14.7	A.
	11	17	43.5	A.
	13	12	12.2	A.
	15	6	40.9	A.
	17	1	9.6	A.
	18	19	38.3	A.
	20	14	7.0	A.
	22	8	35.7	A.
	24	3	4.3	A.
	25	21	33.0	A.
	27	16	1.7	A.
	29	10	30.4	A.
		h	m	
Juni	19	16	9.5	E.
	21	10	38.0	E.
	23	5	6.6	E.
	24	23	35.1	E.
	26	18	3.6	E.
	28	12	32.1	E.
	30	7	0.6	E.
Juli	2	1	29.1	E.
	3	19	57.6	E.
	5	14	26.1	E.
	7	8	54.6	E.
	9	3	23.1	E.
	10	21	51.6	E.
	12	16	20.0	E.
	14	10	48.5	E.
	16	5	17.0	E.
	17	23	45.5	E.
	19	18	13.9	E.
	21	12	42.4	E.

TRABANT I

		h	m	
Juli	23	7	10.9	E.
	25	1	39.4	E.
	26	20	7.8	E.
	28	14	36.3	E.
	30	9	4.8	E.
Aug.	1	3	33.2	E.
	2	22	1.7	E.
	4	16	30.2	E.
	6	10	58.6	E.
	8	5	27.1	E.
	9	23	55.5	E.
	11	18	24.0	E.
	13	12	52.4	E.
	15	7	20.9	E.
	17	1	49.3	E.
	18	20	17.8	E.
	20	14	46.2	E.
	22	9	14.7	E.
	24	3	43.1	E.
	25	22	11.6	E.
	27	16	40.0	E.
	29	11	8.5	E.
	31	5	36.9	E.
Sept.	2	0	5.4	E.
	3	18	33.9	E.
	5	13	2.3	E.
	7	7	30.8	E.
	9	1	59.3	E.
	10	20	27.7	E.
	12	14	56.2	E.
	14	9	24.6	E.
	16	3	53.1	E.
	17	22	21.5	E.
	19	16	50.0	E.
	21	11	18.5	E.
	23	5	47.0	E.
	25	0	15.4	E.
	26	18	43.9	E.
	28	13	12.4	E.
	30	7	40.9	E.
Okt.	2	2	9.4	E.
	3	20	37.9	E.
	5	15	6.3	E.
	7	9	34.9	E.
	9	4	3.4	E.
	10	22	31.9	E.

TRABANT I

		h	m	
Okt.	12	17	0.4	E.
	14	11	28.9	E.
	16	5	57.4	E.
	18	0	26.0	E.
	19	18	54.5	E.
	21	13	23.1	E.
	23	7	51.6	E.
	25	2	20.1	E.
	26	20	48.6	E.
	28	15	17.2	E.
	30	9	45.7	E.
Nov.	1	4	14.4	E.
	2	22	42.9	E.
	4	17	11.5	E.
	6	11	40.1	E.
	8	6	8.7	E.
	10	0	37.3	E.
	11	19	6.0	E.
	13	13	34.6	E.
	15	8	3.2	E.
	17	2	31.8	E.
	18	21	0.5	E.
	20	15	29.1	E.
	22	9	57.8	E.
	24	4	26.4	E.
	25	22	55.1	E.
	27	17	23.7	E.
	29	11	52.5	E.
Dez.	1	6	21.1	E.
	3	0	49.9	E.
	4	19	18.5	E.
	6	13	47.3	E.
	8	8	16.0	E.
	10	4	57.4	A.
	11	23	26.1	A.
	13	17	55.0	A.
	15	12	23.7	A.
	17	6	52.5	A.
	19	1	21.2	A.
	20	19	50.1	A.
	22	14	18.8	A.
	24	8	47.7	A.
	26	3	16.5	A.
	27	21	45.3	A.
	29	16	14.1	A.
	31	10	43.0	A.

Jupitertrabanten 1941

Verfinsterungen: E. Eintritte, A. Austritte (in Welt-Zeit)

TRABANT II

Datum		h	m	
Jan.	0	8	45.2	A.
	3	22	4.0	A.
	7	11	22.5	A.
	10	22	7.6	E.
	11	0	41.5	A.
	14	11	26.2	E.
	14	14	0.1	A.
	18	0	45.1	E.
	18	3	19.2	A.
	21	14	3.8	E.
	21	16	37.8	A.
	25	3	22.8	E.
	25	5	57.0	A.
	28	16	41.5	E.
	28	19	15.8	A.
Febr.	1	6	0.6	E.
	1	8	35.0	A.
	4	19	19.4	E.
	4	21	53.8	A.
	8	8	38.6	E.
	8	11	13.2	A.
	11	21	57.4	E.
	12	0	32.0	A.
	15	11	16.7	E.
	15	13	51.5	A.
	19	3	10.3	A.
	22	16	29.8	A.
	26	5	48.6	A.
März	1	19	8.2	A.
	5	8	27.1	A.
	8	21	46.7	A.
	12	11	5.6	A.
	16	0	25.2	A.
	19	13	44.1	A.
	23	3	3.8	A.
	26	16	22.7	A.
	30	5	42.4	A.
April	2	19	1.2	A.
	6	8	21.0	A.
	9	21	39.7	A.
	13	10	59.4	A.
	17	0	18.2	A.
	20	13	37.9	A.
	24	2	56.6	A.
	27	16	16.4	A.
Juni	19	21	22.5	E.
	23	10	41.4	E.
	26	23	59.5	E.

TRABANT II

Datum		h	m	
Juni	30	13	18.3	E.
Juli	4	2	36.4	E.
	7	15	55.0	E.
	11	5	13.0	E.
	14	18	31.5	E.
	18	7	49.4	E.
	21	21	7.7	E.
	25	10	25.6	E.
	28	23	43.8	E.
Aug.	1	13	1.5	E.
	5	2	19.7	E.
	8	15	37.3	E.
	12	4	55.3	E.
	15	18	12.8	E.
	19	7	30.7	E.
	22	20	48.1	E.
	26	10	5.9	E.
	29	23	23.3	E.
	30	2	0.6	A.
Sept.	2	12	40.9	E.
	2	15	18.2	A.
	6	1	58.3	E.
	6	4	35.7	A.
	9	15	15.7	E.
	9	17	53.1	A.
	13	4	33.1	E.
	13	7	10.5	A.
	16	17	50.4	E.
	16	20	27.9	A.
	20	7	7.8	E.
	20	9	45.2	A.
	23	20	25.0	E.
	23	23	2.5	A.
	27	9	42.2	E.
	30	22	59.5	E.
Okt.	4	12	16.6	E.
	8	1	33.8	E.
	11	14	50.9	E.
	15	4	8.1	E.
	18	17	25.2	E.
	22	6	42.3	E.
	25	19	59.4	E.
	29	9	16.5	E.
Nov.	1	22	33.6	E.
	5	11	50.7	E.
	9	1	7.8	E.
	12	14	24.9	E.
	16	3	42.1	E.
	19	16	59.2	E.
	23	6	16.4	E.

TRABANT II

Datum		h	m	
Nov.	26	19	33.6	E.
	30	8	50.9	E.
Dez.	3	22	8.1	E.
	7	11	25.4	E.
	11	3	21.7	A.
	14	16	39.2	A.
	18	5	56.7	A.
	21	19	14.2	A.
	25	8	31.9	A.
	28	21	49.5	A.
	32	11	7.2	A.

TRABANT III

Datum		h	m	
Jan.	4	16	35.1	E.
	4	18	32.0	A.
	11	20	36.6	E.
	11	22	33.7	A.
	19	0	38.2	E.
	19	2	35.6	A.
	26	4	40.0	E.
	26	6	37.6	A.
Febr.	2	8	42.4	E.
	2	10	40.4	A.
	9	12	44.3	E.
	9	14	42.5	A.
	16	16	46.3	E.
	16	18	44.9	A.
	23	20	47.6	E.
	23	22	46.6	A.
März	3	0	48.7	E.
	3	2	48.2	A.
	10	4	49.9	E.
	10	6	49.9	A.
	17	8	51.2	E.
	17	10	51.7	A.
	24	12	53.1	E.
	24	14	54.1	A.
	31	16	54.4	E.
	31	18	55.8	A.
April	7	20	55.7	E.
	7	22	57.8	A.
	15	0	56.3	E.
	15	2	58.9	A.
	22	7	0.0	A.
	29	11	1.1	A.
Juni	25	16	59.0	E.
	25	19	9.3	A.

TRABANT III

Datum		h	m	
Juli	2	20	59.4	E.
	2	23	10.6	A.
	10	0	59.3	E.
	10	3	11.3	A.
	17	4	59.2	E.
	17	7	12.1	A.
	24	8	58.3	E.
	24	11	12.2	A.
	31	12	57.4	E.
	31	15	12.3	A.
Aug.	7	16	56.7	E.
	7	19	12.6	A.
	14	20	56.1	E.
	14	23	12.9	A.
	22	0	56.2	E.
	22	3	14.0	A.
	29	4	55.6	E.
	29	7	14.5	A.
Sept.	5	8	55.1	E.
	5	11	14.9	A.
	12	12	53.9	E.
	12	15	14.8	A.
	19	16	52.7	E.
	19	19	14.6	A.
	26	20	51.9	E.
	26	23	14.9	A.
Okt.	4	0	51.2	E.
	4	3	15.3	A.
	11	4	51.3	E.
	11	7	16.4	A.
	18	8	50.7	E.
	18	11	16.9	A.
	25	12	50.3	E.
	25	15	17.6	A.
Nov.	1	16	49.4	E.
	1	19	17.8	A.
	8	20	48.5	E.
	8	23	18.0	A.
	16	0	48.1	E.
	23	4	48.0	E.
	30	8	48.6	E.
Dez.	7	12	48.7	E.
	14	19	24.0	A.
	21	23	24.9	A.
	29	3	25.9	A.

TRABANT IV

wird nicht verfinstert.

Welt-Zeit 1941	h	
Jan. 3	18	☉ in Erdnähe
7	7	♃ ☌ ☾
7	12	♄ ☌ ☾
8	16	♅ ☌ ☾
10	10	♄ stationär in AR.
11	10	☿ obere ☌ ☉
18	4	♆ ☌ ☾
23	10	♂ ☌ ☾
25	20	♀ ☌ ☾
28	14	☿ ☌ ☾
30	8	♅ stationär in AR.
Febr. 3	19	♃ ☌ ☾
3	21	♄ ☌ ☾
5	0	♅ ☌ ☾
11	0	☿ gr. östl. El. 18° 10′
12	6	☿ im Perihel
14	11	♆ ☌ ☾
16	20	☿ stationär in AR.
20	19	♃ ☌ ♄, ♃ 1° 21′ N.
21	3	♂ ☌ ☾
25	2	♀ ☌ ☾
26	3	☿ ☌ ☾
26	12	☿ untere ☌ ☉
März 1	8	♀ im Aphel
3	9	♄ ☌ ☾
3	11	♃ ☌ ☾
3	13	☿ ☌ ♀, ☿ 4° 48′ N.
4	8	♅ ☌ ☾
10	20	☿ stationär in AR.
13	—	☾ part. Finsternis
13	19	♆ ☌ ☾
17	8	♆ ☍ ☉
21	0	Frühlingsanfang
21	22	♂ ☌ ☾
25	11	☿ ☌ ☾
25	15	☿ gr. westl. El. 27° 48′
27	—	☉ ringf. Finsternis
27	9	♀ ☌ ☾
28	6	☿ im Aphel
30	21	♄ ☌ ☾
31	4	♃ ☌ ☾
31	17	♅ ☌ ☾

Welt-Zeit 1941	h	
April 10	5	♆ ☌ ☾
19	7	♀ obere ☌ ☉
19	17	♂ ☌ ☾
25	11	☿ ☌ ☾
26	16	♀ ☌ ☾
27	10	♄ ☌ ☾
27	23	♃ ☌ ☾
28	2	♅ ☌ ☾
Mai 4	18	♀ ☌ ♄, ♀ 1° 33′ N.
6	5	☿ obere ☌ ☉
7	7	♃ ☌ ♅, ♃ 0° 32′ S.
7	14	♆ ☌ ☾
7	17	☿ ☌ ♄, ☿ 2° 19′ N.
9	1	♄ ☌ ☉
11	4	♀ ☌ ♅, ♀ 0° 5′ S.
11	5	☿ ☌ ♅, ☿ 1° 3′ N.
11	6	☿ im Perihel
11	6	☿ ☌ ♀, ☿ 1° 8′ N.
11	13	☿ ☌ ♃, ☿ 1° 38′ N.
11	20	♀ ☌ ♃, ♀ 0° 28′ N.
17	12	♅ ☌ ☉
18	14	♂ ☌ ☾
19	20	♃ ☌ ☉
24	23	♄ ☌ ☾
25	12	♅ ☌ ☾
25	18	♃ ☌ ☾
27	2	♀ ☌ ☾
28	3	☿ ☌ ☾
Juni 3	22	♆ ☌ ☾
6	4	☿ gr. östl. El. 23° 47′
6	10	♆ stationär in AR.
16	9	♂ ☌ ☾
19	11	☿ stationär in AR.
20	12	☿ ☌ ♀, ☿ 2° 54′ S.
21	12	♄ ☌ ☾
21	16	♀ im Perihel
21	20	Sommersanfang
21	21	♅ ☌ ☾
22	14	♃ ☌ ☾
24	5	☿ im Aphel
25	18	☿ ☌ ☾
26	11	♀ ☌ ☾

Konstellationen 1941

Welt-Zeit 1941		h	
Juli	1	4	♆ ☌ ☾
	2	21	☿ untere ☌ ☉
	3	0	☉ in Erdferne
	14	0	☿ stationär in AR.
	15	2	♂ ☌ ☾
	19	1	♄ ☌ ☾
	19	7	♅ ☌ ☾
	20	9	♃ ☌ ☾
	22	16	☿ ☌ ☾
	24	4	☿ gr. westl. El. 20° 0′
	26	13	♀ ☌ ☾
	28	10	♆ ☌ ☾
Aug.	4	14	♂ im Perihel
	7	5	☿ im Perihel
	12	10	♂ ☌ ☾
	15	13	♄ ☌ ☾
	15	17	♅ ☌ ☾
	17	3	♃ ☌ ☾
	18	0	♀ ☌ ♆, ♀ 0° 18′ S.
	19	0	☿ obere ☌ ☉
	23	5	☿ ☌ ☾
	24	18	♆ ☌ ☾
	25	8	♀ ☌ ☾
Sept.	5	—	☾ part. Finsternis
	5	6	☿ ☌ ♆, ☿ 0° 44′ S.
	5	18	♅ stationär in AR.
	6	18	♂ stationär in AR.
	9	2	♂ ☌ ☾
	11	3	♄ stationär in AR.
	11	22	♄ ☌ ☾
	12	1	♅ ☌ ☾
	13	18	♃ ☌ ☾
	20	5	☿ im Aphel
	20	20	♆ ☌ ☉
	21	—	☉ totale Finsternis
	21	5	♆ ☌ ☾
	22	19	☿ ☌ ☾
	23	11	Herbstanfang
	24	0	♀ ☌ ☾
Okt.	3	5	☿ gr. östl. El. 25° 42′
	3	7	♂ d. Erde a. nächsten
	5	23	♂ ☌ ☾
	9	4	♄ ☌ ☾
	9	7	♅ ☌ ☾
	10	8	♃ stationär in AR.
	10	13	♂ ☍ ☉
	11	4	♃ ☌ ☾
	12	0	♀ im Aphel
	15	15	☿ stationär in AR.
	18	17	♆ ☌ ☾
	21	8	☿ ☌ ☾
	23	17	♀ ☌ ☾
	27	3	☿ untere ☌ ☉
Nov.	1	15	♂ ☌ ☾
	3	4	☿ im Perihel
	4	18	☿ stationär in AR.
	5	7	♄ ☌ ☾
	5	12	♅ ☌ ☾
	7	8	♃ ☌ ☾
	12	3	☿ gr. westl. El. 19° 11′
	12	8	♂ stationär in AR.
	15	4	♆ ☌ ☾
	17	17	☿ ☌ ☾
	17	19	♄ ☍ ☉
	21	1	♅ ☍ ☉
	22	10	♀ ☌ ☾
	23	5	♀ gr. östl. El. 47° 16′
	28	22	♂ ☌ ☾
Dez.	2	9	♄ ☌ ☾
	2	16	♅ ☌ ☾
	4	7	♃ ☌ ☾
	8	20	♃ ☍ ☉
	12	14	♆ ☌ ☾
	17	4	☿ im Aphel
	18	6	☿ ☌ ☾
	21	16	♀ ☌ ☾
	22	0	☿ obere ☌ ☉
	22	6	Wintersanfang
	26	22	♂ ☌ ☾
	29	1	♀ im größten Glanze
	29	11	♄ ☌ ☾
	29	20	♅ ☌ ☾
	31	7	♃ ☌ ☾

Präzession in Rektaszension (p_α) und Deklination (p_δ)

α \ δ	p_α +60°	+50°	+40°	+30°	+20°	+10°	0°	−10°	−20°	−30°	−40°	−50°	−60°	p_δ
h	s	s	s	s	s	s	s	s	s	s	s	s	s	"
0	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0
1	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	+19.4
2	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	+17.4
3	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	+14.2
4	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	+10.0
5	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	+ 5.2
6	5.39	4.67	4.19	3.84	3.56	3.31	3.07	2.84	2.59	2.30	1.95	1.48	0.76	0.0
7	5.31	4.61	4.16	3.82	3.54	3.30	3.07	2.84	2.60	2.33	1.99	1.53	0.84	− 5.2
8	5.08	4.45	4.04	3.74	3.49	3.28	3.07	2.87	2.65	2.41	2.10	1.69	1.07	−10.0
9	4.71	4.20	3.87	3.62	3.42	3.24	3.07	2.91	2.73	2.53	2.28	1.95	1.44	−14.2
10	4.23	3.87	3.63	3.46	3.32	3.19	3.07	2.95	2.83	2.69	2.51	2.28	1.92	−17.4
11	3.67	3.48	3.36	3.27	3.20	3.13	3.07	3.01	2.95	2.87	2.78	2.66	2.47	−19.4
12	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	−20.0
13	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	−19.4
14	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	−17.4
15	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	−14.2
16	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	−10.0
17	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	− 5.2
18	0.76	1.48	1.95	2.30	2.59	2.84	3.07	3.31	3.56	3.84	4.19	4.67	5.39	0.0
19	0.84	1.53	1.99	2.33	2.60	2.84	3.07	3.30	3.54	3.82	4.16	4.61	5.31	+ 5.2
20	1.07	1.69	2.10	2.41	2.65	2.87	3.07	3.28	3.49	3.74	4.04	4.45	5.08	+10.0
21	1.44	1.95	2.28	2.53	2.73	2.91	3.07	3.24	3.42	3.62	3.87	4.20	4.71	+14.2
22	1.92	2.28	2.51	2.69	2.83	2.95	3.07	3.19	3.32	3.46	3.63	3.87	4.23	+17.4
23	2.47	2.66	2.78	2.87	2.95	3.01	3.07	3.13	3.20	3.27	3.36	3.48	3.67	+19.4
24	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	+20.0

Präzessionswerte und Schiefe der Ekliptik

Zeit	m	n	n	ψ	log π	Π	ε
	s	"	s	"		° '	° ' "
1900.0	3.07234	20.0468	1.33646	50.2564	9.67309	173 57.06	23 27 8.26
1905.0	3.07243	20.0464	1.33643	50.2575	9.67305	173 59.80	23 27 5.92
1910.0	3.07252	20.0460	1.33640	50.2586	9.67302	174 2.53	23 27 3.57
1915.0	3.07262	20.0456	1.33637	50.2597	9.67299	174 5.27	23 27 1.23
1920.0	3.07271	20.0451	1.33634	50.2608	9.67296	174 8.01	23 26 58.89
1925.0	3.07280	20.0447	1.33632	50.2620	9.67293	174 10.75	23 26 56.54
1930.0	3.07289	20.0443	1.33629	50.2631	9.67290	174 13.49	23 26 54.20
1935.0	3.07299	20.0439	1.33626	50.2642	9.67287	174 16.23	23 26 51.86
1940.0	3.07308	20.0434	1.33623	50.2653	9.67284	174 18.97	23 26 49.52
1945.0	3.07317	20.0430	1.33620	50.2664	9.67281	174 21.71	23 26 47.17
1950.0	3.07327	20.0426	1.33617	50.2675	9.67278	174 24.45	23 26 44.83

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
1941		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	∓62.6	∓57.9	∓53.0	∓47.9	∓42.5	∓36.7	∓30.5	∓23.8	∓16.5	∓8.7	0.0
	11	∓58.5	∓54.0	∓49.5	∓44.6	∓39.6	∓34.1	∓28.3	∓22.0	∓15.4	∓8.0	0.0
	21	∓52.1	∓48.1	∓44.0	∓39.7	∓35.2	∓30.3	∓25.1	∓19.6	∓13.7	∓7.1	0.0
	31	∓44.3	∓40.9	∓37.3	∓33.6	∓29.8	∓25.7	∓21.2	∓16.5	∓11.5	∓6.0	0.0
Febr.	10	∓35.5	∓32.8	∓29.9	∓26.9	∓23.8	∓20.5	∓16.9	∓13.1	∓ 9.1	∓4.8	0.0
	20	∓26.2	∓24.2	∓22.0	∓19.8	∓17.5	∓15.1	∓12.4	∓ 9.6	∓ 6.6	∓3.5	0.0
März	2	∓16.6	∓15.3	∓13.9	∓12.5	∓11.0	∓ 9.5	∓ 7.8	∓ 6.0	∓ 4.1	∓2.2	0.0
	12	∓ 6.9	∓ 6.4	∓ 5.8	∓ 5.2	∓ 4.5	∓ 3.9	∓ 3.2	∓ 2.5	∓ 1.7	∓0.9	0.0
	22	± 2.8	± 2.6	± 2.4	± 2.3	± 2.0	± 1.7	± 1.4	± 1.1	± 0.8	±0.3	0.0
April	1	±12.4	±11.5	±10.5	± 9.6	± 8.5	± 7.2	± 6.0	± 4.7	± 3.3	±1.6	0.0
	11	±22.1	±20.4	±18.7	±16.9	±14.9	±12.7	±10.5	± 8.3	± 5.7	±2.9	0.0
	21	±31.6	±29.1	±26.7	±24.1	±21.2	±18.2	±15.1	±11.8	± 8.2	±4.2	0.0
Mai	1	±40.7	±37.6	±34.4	±31.1	±27.5	±23.6	±19.7	±15.3	±10.7	±5.5	0.0
	11	±49.3	±45.6	±41.7	±37.7	±33.4	±28.7	±23.9	±18.6	±13.0	±6.7	0.0
	21	±56.9	±52.8	±48.3	±43.5	±38.7	±33.3	±27.7	±21.7	±15.1	±7.8	0.0
	31	±63.0	±58.5	±53.6	±48.4	±43.0	±37.1	±30.9	±24.2	±16.8	±8.8	0.0
Juni	10	±67.2	±62.3	±57.2	±51.7	±45.9	±39.6	±33.0	±25.9	±18.0	±9.5	0.0
	20	±68.8	±63.8	±58.6	±52.9	±47.0	±40.7	±33.9	±26.6	±18.5	±9.8	0.0
	30	±67.8	±62.8	±57.8	±52.2	±46.4	±40.1	±33.4	±26.2	±18.2	±9.6	0.0
Juli	10	±64.4	±59.6	±54.7	±49.4	±43.9	±37.9	±31.5	±24.8	±17.2	±9.1	0.0
	20	±58.7	±54.3	±49.9	±45.0	±40.0	±34.5	±28.6	±22.4	±15.6	±8.2	0.0
	30	±51.5	±47.6	±43.7	±39.3	±35.0	±30.1	±25.0	±19.5	±13.5	±7.1	0.0
Aug.	9	±43.3	±40.0	±36.6	±32.9	±29.2	±25.2	±20.9	±16.3	±11.3	±5.9	0.0
	19	±34.4	±31.8	±29.0	±26.1	±23.1	±20.0	±16.6	±12.8	± 8.9	±4.7	0.0
	29	±25.1	±23.2	±21.2	±19.1	±16.8	±14.6	±12.1	± 9.3	± 6.5	±3.4	0.0
Sept.	8	±15.7	±14.4	±13.2	±11.9	±10.5	± 9.1	± 7.5	± 5.8	± 4.0	±2.1	0.0
	18	± 6.2	± 5.6	± 5.1	± 4.6	± 4.1	± 3.6	± 2.9	± 2.3	± 1.6	±0.9	0.0
	28	∓ 3.5	∓ 3.2	∓ 2.9	∓ 2.6	∓ 2.3	∓ 1.9	∓ 1.6	∓ 1.2	∓ 0.9	∓0.4	0.0
Okt.	8	∓13.1	∓12.0	∓10.9	∓ 9.9	∓ 8.7	∓ 7.4	∓ 6.1	∓ 4.8	∓ 3.3	∓1.6	0.0
	18	∓22.6	∓20.8	∓19.0	∓17.1	∓15.1	∓12.9	∓10.6	∓ 8.3	∓ 5.7	∓2.9	0.0
	28	∓31.9	∓29.4	∓26.9	∓24.2	∓21.4	∓18.3	∓15.1	∓11.8	∓ 8.2	∓4.2	0.0
Nov.	7	∓40.8	∓37.7	∓34.5	∓31.1	∓27.5	∓23.5	∓19.5	∓15.2	∓10.5	∓5.5	0.0
	17	∓49.1	∓45.4	∓41.5	∓37.5	∓33.0	∓28.4	∓23.6	∓18.4	∓12.8	∓6.7	0.0
	27	∓56.1	∓51.8	∓47.4	∓42.8	∓37.9	∓32.6	∓27.2	∓21.2	∓14.7	∓7.7	0.0
Dez.	7	∓61.2	∓56.6	∓51.8	∓46.8	∓41.5	∓35.8	∓29.8	∓23.2	∓16.1	∓8.5	0.0
	17	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	27	∓63.9	∓59.1	∓54.1	∓48.9	∓43.3	∓37.4	∓31.1	∓24.3	∓16.9	∓8.9	0.0
	37	∓61.0	∓56.4	∓51.6	∓46.6	∓41.3	∓35.6	∓29.6	∓23.2	∓16.1	∓8.4	0.0

Reduktionstafel

für den Auf- und Untergang der Sonne

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

Tag		Geographische Breite										
		+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
1941		m	m	m	m	m	m	m	m	m	m	m
Jan.	1	0.0	±4.7	± 9.6	±14.8	±20.5	±26.4	±32.8	±39.5	±46.9	±55.0	±63.8
	11	0.0	±4.4	± 8.9	±13.8	±18.7	±24.3	±30.1	±36.3	±43.0	±50.3	±58.1
	21	0.0	±3.8	± 7.9	±12.1	±16.5	±21.2	±26.3	±31.7	±37.3	±43.5	±50.2
	31	0.0	±3.2	± 6.6	±10.0	±13.7	±17.7	±21.9	±26.3	±30.9	±36.0	±41.4
Febr.	10	0.0	±2.5	± 5.2	± 7.9	±10.8	±14.0	±17.2	±20.6	±24.2	±28.1	±32.3
	20	0.0	±1.8	± 3.8	± 5.7	± 7.8	±10.1	±12.5	±14.9	±17.5	±20.3	±23.2
März	2	0.0	±1.2	± 2.4	± 3.6	± 4.9	± 6.3	± 7.8	± 9.3	±10.9	±12.6	±14.3
	12	0.0	±0.5	± 1.0	± 1.4	± 2.0	± 2.6	± 3.2	± 3.8	± 4.3	± 5.1	± 5.8
	22	0.0	∓0.2	∓ 0.4	∓ 0.7	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.7	∓ 2.1	∓ 2.4	∓ 2.8
April	1	0.0	∓0.9	∓ 1.8	∓ 2.8	∓ 3.9	∓ 4.9	∓ 6.1	∓ 7.3	∓ 8.6	∓10.0	∓11.3
	11	0.0	∓1.5	∓ 3.2	∓ 5.0	∓ 6.9	∓ 8.7	∓10.7	∓12.9	∓15.2	∓17.6	∓20.1
	21	0.0	∓2.2	∓ 4.6	∓ 7.2	∓ 9.9	∓12.6	∓15.5	∓18.6	∓22.0	∓25.4	∓29.2
Mai	1	0.0	∓3.0	∓ 6.1	∓ 9.4	∓12.9	∓16.5	∓20.3	∓24.4	∓28.8	∓33.4	∓38.4
	11	0.0	∓3.6	∓ 7.4	∓11.5	∓15.8	∓20.3	∓25.0	∓30.2	∓35.8	∓41.6	∓47.9
	21	0.0	∓4.2	∓ 8.7	∓13.4	∓18.5	∓23.9	∓29.6	∓35.8	∓42.5	∓49.6	∓57.4
	31	0.0	∓4.7	∓ 9.8	∓15.2	∓20.9	∓27.1	∓33.6	∓40.7	∓48.3	∓56.7	∓65.9
Juni	10	0.0	∓5.1	∓10.6	∓16.4	∓22.6	∓29.2	∓36.4	∓44.2	∓52.6	∓61.9	∓72.3
	20	0.0	∓5.3	∓10.9	∓16.9	∓23.3	∓30.2	∓37.5	∓45.6	∓54.4	∓64.0	∓75.1
	30	0.0	∓5.2	∓10.7	∓16.6	∓22.9	∓29.6	∓36.9	∓44.7	∓53.3	∓62.7	∓73.5
Juli	10	0.0	∓4.9	∓10.1	∓15.6	∓21.5	∓27.7	∓34.4	∓41.7	∓49.6	∓58.4	∓67.8
	20	0.0	∓4.4	∓ 9.1	∓14.0	∓19.2	∓24.8	∓30.8	∓37.2	∓44.1	∓51.6	∓59.9
	30	0.0	∓3.8	∓ 7.9	∓12.0	∓16.5	∓21.3	∓26.4	∓31.9	∓37.6	∓43.9	∓50.7
Aug.	9	0.0	∓3.2	∓ 6.5	∓ 9.9	∓13.7	∓17.6	∓21.8	∓26.2	∓30.8	∓35.8	∓41.2
	19	0.0	∓2.5	∓ 5.1	∓ 7.7	∓10.7	∓13.7	∓17.0	∓20.4	∓24.0	∓27.8	∓32.0
	29	0.0	∓1.8	∓ 3.7	∓ 5.6	∓ 7.7	∓ 9.9	∓12.2	∓14.7	∓17.2	∓20.0	∓22.9
Sept.	8	0.0	∓1.2	∓ 2.3	∓ 3.5	∓ 4.8	∓ 6.1	∓ 7.6	∓ 9.1	∓10.6	∓12.4	∓14.2
	18	0.0	∓0.5	∓ 0.9	∓ 1.4	∓ 1.9	∓ 2.4	∓ 3.0	∓ 3.6	∓ 4.2	∓ 4.9	∓ 5.6
	28	0.0	±0.2	± 0.5	± 0.7	± 1.0	± 1.3	± 1.5	± 1.8	± 2.2	± 2.5	± 2.8
Okt.	8	0.0	±0.9	± 1.8	± 2.9	± 3.9	± 5.0	± 6.1	± 7.2	± 8.6	± 9.9	±11.2
	18	0.0	±1.6	± 3.2	± 5.0	± 6.8	± 8.7	±10.6	±12.7	±15.1	±17.4	±19.9
	28	0.0	±2.2	± 4.6	± 7.1	± 9.7	±12.5	±15.3	±18.3	±21.7	±25.0	±28.7
Nov.	7	0.0	±2.9	± 6.0	± 9.2	±12.7	±16.2	±20.0	±23.9	±28.3	±32.8	±37.8
	17	0.0	±3.6	± 7.3	±11.3	±15.5	±19.8	±24.5	±29.5	±34.9	±40.5	±46.7
	27	0.0	±4.1	± 8.4	±13.1	±18.0	±23.1	±28.6	±34.5	±40.8	±47.7	±55.1
Dez.	7	0.0	±4.6	± 9.3	±14.5	±19.8	±25.7	±31.9	±38.4	±45.6	±53.3	±61.7
	17	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.7
	27	0.0	±4.8	± 9.8	±15.2	±20.9	±27.0	±33.5	±40.5	±48.2	±56.4	±65.5
	37	0.0	±4.6	± 9.3	±14.4	±19.8	±25.5	±31.7	±38.2	±45.3	±53.1	±61.5

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

*t**)	Geographische Breite										
	+30°	+32°	+34°	+36°	+38°	+40°	+42°	+44°	+46°	+48°	+50°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	∓94.6	∓87.9	∓80.9	∓73.4	∓65.5	∓56.9	∓47.6	∓37.5	∓26.4	∓14.0	0.0
3 30	∓88.5	∓82.2	∓75.6	∓68.5	∓61.0	∓52.9	∓44.2	∓34.8	∓24.4	∓12.9	0.0
3 40	∓82.5	∓76.5	∓70.3	∓63.7	∓56.6	∓49.1	∓41.0	∓32.2	∓22.5	∓11.9	0.0
3 50	∓76.6	∓71.0	∓65.2	∓59.0	∓52.4	∓45.3	∓37.8	∓29.6	∓20.7	∓10.9	0.0
4 0	∓70.8	∓65.6	∓60.1	∓54.4	∓48.2	∓41.7	∓34.7	∓27.2	∓18.9	∓ 9.9	0.0
4 10	∓65.1	∓60.3	∓55.2	∓49.9	∓44.2	∓38.2	∓31.7	∓24.8	∓17.3	∓ 9.0	0.0
4 20	∓59.5	∓55.0	∓50.3	∓45.5	∓40.3	∓34.8	∓28.9	∓22.5	∓15.7	∓ 8.2	0.0
4 30	∓54.0	∓49.9	∓45.6	∓41.2	∓36.5	∓31.4	∓26.1	∓20.4	∓14.1	∓ 7.4	0.0
4 40	∓48.4	∓44.8	∓40.9	∓36.9	∓32.7	∓28.2	∓23.3	∓18.2	∓12.6	∓ 6.6	0.0
4 50	∓43.0	∓39.8	∓36.4	∓32.7	∓29.0	∓24.9	∓20.7	∓16.1	∓11.2	∓ 5.8	0.0
5 0	∓37.7	∓34.8	∓31.8	∓28.6	∓25.3	∓21.8	∓18.1	∓14.1	∓ 9.8	∓ 5.0	0.0
5 10	∓32.4	∓29.9	∓27.3	∓24.6	∓21.7	∓18.7	∓15.5	∓12.1	∓ 8.4	∓ 4.3	0.0
5 20	∓27.1	∓25.0	∓22.8	∓20.6	∓18.2	∓15.6	∓12.9	∓10.1	∓ 7.0	∓ 3.6	0.0
5 30	∓21.9	∓20.2	∓18.4	∓16.6	∓14.7	∓12.6	∓10.4	∓ 8.1	∓ 5.6	∓ 2.9	0.0
5 40	∓16.7	∓15.4	∓14.0	∓12.6	∓11.2	∓ 9.6	∓ 7.9	∓ 6.2	∓ 4.3	∓ 2.2	0.0
5 50	∓11.5	∓10.6	∓ 9.7	∓ 8.7	∓ 7.7	∓ 6.6	∓ 5.5	∓ 4.2	∓ 2.9	∓ 1.5	0.0
6 0	∓ 6.4	∓ 5.8	∓ 5.4	∓ 4.8	∓ 4.2	∓ 3.6	∓ 3.0	∓ 2.3	∓ 1.6	∓ 0.9	0.0
6 10	∓ 1.2	∓ 1.1	∓ 1.0	∓ 0.9	∓ 0.8	∓ 0.7	∓ 0.6	∓ 0.4	∓ 0.3	∓ 0.2	0.0
6 20	± 4.0	± 3.7	± 3.4	± 3.0	± 2.6	± 2.3	± 1.9	± 1.5	± 1.0	± 0.5	0.0
6 30	± 9.1	± 8.4	± 7.7	± 6.9	± 6.1	± 5.3	± 4.4	± 3.4	± 2.4	± 1.2	0.0
6 40	±14.3	±13.2	±12.0	±10.8	± 9.6	± 8.2	± 6.8	± 5.3	± 3.7	± 1.9	0.0
6 50	±19.5	±18.0	±16.4	±14.8	±13.1	±11.2	± 9.3	± 7.2	± 5.0	± 2.6	0.0
7 0	±24.7	±22.8	±20.9	±18.8	±16.6	±14.2	±11.8	± 9.1	± 6.3	± 3.3	0.0
7 10	±30.0	±27.7	±25.3	±22.8	±20.1	±17.3	±14.3	±11.1	± 7.7	± 4.0	0.0
7 20	±35.3	±32.6	±29.7	±26.8	±23.7	±20.3	±16.8	±13.1	± 9.1	± 4.7	0.0
7 30	±40.6	±37.5	±34.3	±30.9	±27.3	±23.4	±19.4	±15.1	±10.5	± 5.5	0.0
7 40	±45.9	±42.5	±38.9	±35.0	±31.0	±26.6	±22.1	±17.2	±12.0	± 6.2	0.0
7 50	±51.4	±47.6	±43.5	±39.2	±34.7	±29.9	±24.8	±19.3	±13.5	± 7.0	0.0
8 0	±56.9	±52.7	±48.2	±43.5	±38.5	±33.2	±27.6	±21.5	±15.0	± 7.8	0.0
8 10	±62.5	±57.9	±53.0	±47.9	±42.4	±36.6	±30.4	±23.8	±16.6	± 8.6	0.0
8 20	±68.2	±63.2	±57.9	±52.3	±46.4	±40.1	±33.3	±26.1	±18.2	± 9.5	0.0
8 30	±74.0	±68.5	±62.9	±56.9	±50.5	±43.7	±36.4	±28.5	±19.8	±10.5	0.0
8 40	±79.8	±74.0	±67.9	±61.5	±54.7	±47.3	±39.5	±30.9	±21.6	±11.4	0.0
8 50	±85.8	±79.6	±73.1	±66.3	±59.0	±51.1	±42.7	±33.5	±23.5	±12.5	0.0
9 0	±91.9	±85.3	±78.4	±71.2	±63.4	±55.0	±46.0	±36.3	±25.5	±13.5	0.0

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Reduktionstafel

für den Auf- und Untergang des Mondes

Das obere Vorzeichen gilt für den Aufgang, das untere Vorzeichen für den Untergang.

*t**)	Geographische Breite										
	+50°	+51°	+52°	+53°	+54°	+55°	+56°	+57°	+58°	+59°	+60°
h m	m	m	m	m	m	m	m	m	m	m	m
3 20	0.0	±7.7	±16.1	±25.2	±35.1	±46.1	±58.4	±72.5	±89.1	±109.7	±138.1
3 30	0.0	±7.1	±14.7	±22.9	±31.8	±41.6	±52.4	±64.5	±78.3	± 94.5	±114.3
3 40	0.0	±6.5	±13.4	±20.9	±28.9	±37.6	±47.2	±57.7	±69.4	± 82.7	± 98.2
3 50	0.0	±5.9	±12.2	±19.0	±26.2	±34.0	±42.5	±51.7	±61.9	± 73.3	± 86.1
4 0	0.0	±5.4	±11.1	±17.2	±23.7	±30.8	±38.2	±46.3	±55.2	± 65.0	± 76.0
4 10	0.0	±4.9	±10.1	±15.6	±21.4	±27.7	±34.4	±41.6	±49.4	± 57.9	± 67.3
4 20	0.0	±4.5	± 9.1	±14.0	±19.2	±24.8	±30.8	±37.2	±44.0	± 51.5	± 59.6
4 30	0.0	±4.0	± 8.1	±12.5	±17.2	±22.2	±27.5	±33.1	±39.1	± 45.7	± 52.7
4 40	0.0	±3.5	± 7.3	±11.2	±15.3	±19.7	±24.3	±29.3	±34.5	± 40.2	± 46.3
4 50	0.0	±3.1	± 6.4	± 9.8	±13.4	±17.3	±21.4	±25.6	±30.2	± 35.1	± 40.4
5 0	0.0	±2.7	± 5.5	± 8.5	±11.6	±15.0	±18.5	±22.2	±26.1	± 30.3	± 34.8
5 10	0.0	±2.3	± 4.7	± 7.2	±10.0	±12.8	±15.7	±18.9	±22.2	± 25.7	± 29.5
5 20	0.0	±2.0	± 3.9	± 6.0	± 8.3	±10.7	±13.1	±15.7	±18.4	± 21.3	± 24.4
5 30	0.0	±1.6	± 3.2	± 4.8	± 6.7	± 8.5	±10.5	±12.6	±14.8	± 17.1	± 19.6
5 40	0.0	±1.2	± 2.4	± 3.7	± 5.0	± 6.5	± 7.9	± 9.5	±11.2	± 13.0	± 14.8
5 50	0.0	±0.8	± 1.7	± 2.6	± 3.4	± 4.4	± 5.5	± 6.5	± 7.7	± 8.9	± 10.2
6 0	0.0	±0.5	± 0.9	± 1.4	± 1.9	± 2.4	± 3.0	± 3.6	± 4.2	± 4.9	± 5.6
6 10	0.0	±0.1	± 0.2	± 0.2	± 0.4	± 0.5	± 0.6	± 0.7	± 0.8	± 0.9	± 1.1
6 20	0.0	∓0.3	∓ 0.6	∓ 0.9	∓ 1.2	∓ 1.5	∓ 1.9	∓ 2.3	∓ 2.6	∓ 3.0	∓ 3.5
6 30	0.0	∓0.6	∓ 1.3	∓ 2.0	∓ 2.7	∓ 3.5	∓ 4.3	∓ 5.2	∓ 6.0	∓ 7.0	∓ 8.0
6 40	0.0	∓1.0	∓ 2.1	∓ 3.1	∓ 4.3	∓ 5.5	∓ 6.8	∓ 8.1	∓ 9.5	∓ 11.0	∓ 12.6
6 50	0.0	∓1.3	∓ 2.9	∓ 4.3	∓ 5.9	∓ 7.5	∓ 9.4	∓11.2	∓13.1	∓ 15.1	∓ 17.3
7 0	0.0	∓1.7	∓ 3.6	∓ 5.5	∓ 7.5	∓ 9.6	∓11.9	∓14.3	∓16.7	∓ 19.3	∓ 22.2
7 10	0.0	∓2.1	∓ 4.4	∓ 6.7	∓ 9.2	∓11.7	∓14.5	∓17.4	∓20.4	∓ 23.7	∓ 27.1
7 20	0.0	∓2.5	∓ 5.1	∓ 7.9	∓10.8	∓13.8	∓17.1	∓20.6	∓24.2	∓ 28.1	∓ 32.3
7 30	0.0	∓2.9	∓ 6.0	∓ 9.2	∓12.6	∓16.1	∓19.9	∓24.0	∓28.2	∓ 32.8	∓ 37.7
7 40	0.0	∓3.3	∓ 6.9	∓10.6	∓14.4	∓18.5	∓22.9	∓27.5	∓32.4	∓ 37.8	∓ 43.4
7 50	0.0	∓3.8	∓ 7.7	∓12.0	∓16.3	∓21.0	∓25.9	∓31.3	∓36.9	∓ 43.0	∓ 49.6
8 0	0.0	∓4.2	∓ 8.7	∓13.4	∓18.3	∓23.7	∓29.2	∓35.3	∓41.7	∓ 48.7	∓ 56.3
8 10	0.0	∓4.7	∓ 9.6	∓14.9	∓20.4	∓26.4	∓32.6	∓39.5	∓46.8	∓ 54.8	∓ 63.5
8 20	0.0	∓5.2	∓10.6	∓16.4	∓22.6	∓29.2	∓36.3	∓44.0	∓52.3	∓ 61.5	∓ 71.6
8 30	0.0	∓5.7	∓11.7	∓18.1	∓25.0	∓32.4	∓40.4	∓49.1	∓58.6	∓ 69.1	∓ 81.0
8 40	0.0	∓6.3	∓12.9	∓19.9	∓27.6	∓35.8	∓44.9	∓54.9	∓65.7	∓ 77.9	∓ 92.1
8 50	0.0	∓6.8	∓14.1	∓21.9	∓30.5	∓39.7	∓49.8	∓61.2	∓73.8	∓ 88.5	∓106.1
9 0	0.0	∓7.4	∓15.4	∓24.1	∓33.7	∓44.1	∓55.3	∓68.4	∓83.6	∓101.4	∓125.9

*) *t* ist beim Aufgang der Zeitunterschied zwischen Aufgang und Kulmination, beim Untergang der Zeitunterschied zwischen Kulmination und Untergang.

Zusatzkorrektionen

für die Örter des FK 3 für 1941.0

Δα in 0ˢ001 Δδ in 0″01

Nr.	Δα	Δδ	Nr.	Δα	Δδ	Nr.	Δα	Δδ	Nr.	Δα	Δδ
2	+ 1	—	**221**	— 1	—	440	+ 1	—	**660**	— 1	—
8	+ 4	—	**225**	— 1	—	442	+ 1	—	661	— 1	—
10	+ 1	—	233	— 2	—	443	+ 1	—	675	+ 1	—
11	+ 3	—	234	— 3	—	448	+ 3	—	678	— 6	—
16	+ 1	—	**237**	— 1	—	451	+ 3	—	686	— 1	—
21	+ 1	—	247	— 1	—	454	+ 3	—	698	— 3	—
24	+ 3	—	248	—11	+1	**455**	+ 1	—	700	+ 1	—
26	+ 1	—	259	— 2	—	459	+ 5	—	704	— 1	—
29	+ 1	—	260	— 6	+1	**467**	+ 1	—	**708**	— 1	—
31	+ 1	—	264	+ 4	—	**468**	+ 1	—	**715**	— 1	—
32	+ 1	—	**265**	— 1	—	469	+ 2	—	721	— 1	—
34	+ 1	—	**280**	— 1	—	472	+ 1	—	734	—	—1
41	+ 9	—1	284	— 2	+1	474	+ 1	—	748	— 1	—
46	+ 1	—	300	— 2	+1	480	+ 1	—	754	— 1	—1
48	+ 1	—	310	— 1	+1	**481**	+ 1	—	759	— 2	—
51	+ 3	—1	317	—	+1	487	+ 2	—	**764**	— 1	—1
53	— 3	—	318	— 1	—	493	+ 1	+1	770	— 1	—
55	+ 1	—1	322	—	+1	503	+ 4	+1	775	—	—1
63	—	—1	331	— 3	—	**504**	+ 1	—	787	+ 2	—1
70	+ 2	—1	338	—	+1	518	+ 1	—	795	— 3	—
72	+ 1	—	344	+ 1	+1	524	— 3	—	805	+ 1	—1
76	+ 1	—1	355	+ 1	+1	530	+ 1	+1	809	— 1	—
87	+ 2	—1	357	+ 1	+1	542	+ 5	+2	810	+ 5	—1
90	— 5	—	362	— 1	—	550	— 1	—	817	— 1	—
92	—	—1	363	+ 1	—	560	—	+1	820	+ 2	—1
105	+ 4	—2	**368**	—	+1	565	— 1	—	**824**	—	—1
108	—	—1	372	+ 2	+1	567	—	+1	839	+14	—2
113	— 1	—	387	+ 1	—	569	— 1	—	841	+ 1	—
115	+ 2	—2	**394**	+ 1	—	574	—	+1	**846**	+ 1	—
129	— 1	—	395	+ 5	—	589	—	+1	865	+ 2	—
138	— 1	—1	**398**	+ 1	—	590	— 2	+1	**872**	+ 1	—
145	— 1	—1	**400**	+ 1	—	**600**	— 1	—	874	+ 1	—
146	— 1	—	401	— 2	—	602	— 1	—	876	+ 1	—
166	—	—1	403	+ 1	—	606	— 1	—	**877**	+ 1	—
173	— 4	—1	411	— 3	—	610	— 1	+1	882	+ 1	—
178	— 1	—	413	+ 7	—	611	— 5	+1	**889**	+ 1	—
182	— 1	—	**416**	+ 1	—	612	— 1	—	893	+ 2	—
188	— 1	—	417	+ 1	—	625	— 2	—	895	+ 1	—
191	—10	—1	429	+ 1	—	**632**	— 1	—	**901**	+ 1	—
203	— 1	—	433	+ 2	—	642	— 3	—	903	+ 1	—
205	— 5	—	436	+ 1	—	**645**	— 1	—	904	+ 3	—
214	+ 1	—	438	+ 1	—	648	— 1	—			

Die Sterne liegen über ± 60° Deklination mit Ausnahme der durch halbfetten Druck der Nummern kenntlich gemachten Sterne. Die Ephemeriden des Jahrbuches sind entsprechend zu verbessern.

Alphabetisches Sachregister

Preußische Druckerei- und Verlags-A.-G. Berlin.